

7. For the first time since 1912, Calcutta was free from open revolutionary crime. The officers of the Special Branch are to be congratulated on this successful result of their long struggle with the revolutionary conspiracy. A number of prominent revolutionaries were arrested in hiding places in the city during the year, and some significant seizures of arms and seditious literature were made.

8. The number of motor vehicles running in the city continues to increase and is now estimated at over 5000, including 863 motor-cycles. There was a regrettable increase in the number of street accidents, 66 of which proved fatal, as compared with 54 in the previous year. The increase is attributed by the Commissioner in part to the reduction of street lighting. Several gentlemen gave valuable assistance as Special Constables in the control of motor traffic, and the institution of a special Bench of Honorary Magistrates for the trial of motor cases has helped to expedite the proceedings and to save time and trouble to the public.

Under the provisions of the Calcutta Hackney Carriages Act, 1919, the control of hackney carriages will shortly be transferred from the Calcutta Corporation to the Calcutta Police, and the Government of India have recently sanctioned, pending the final orders of the Secretary of State, the creation of a new department, to be called the Public Vehicles Department, comprising two branches, one for motor vehicles and the other for hackney carriages, each with its own establishment in charge of an Assistant Commissioner of Police, the entire department being administered by a Deputy Commissioner of Police.

9. The Cinematograph Act, passed by the Imperial Legislative Council during the year, has not yet been brought into force, but the voluntary censorship boards established in Calcutta have continued to do valuable work, and their control and advice are readily accepted by bioscope proprietors. There are, however, obvious objections to a voluntary system applicable only to a single city and with no legal basis for its operations, and it is hoped that the issue of regulations under the new Act will not be long delayed.

10. The working of the Calcutta Fire Brigade continues to be satisfactory, but the loss of property due to damage by fire and water was large, owing to several big jute fires during the early part of the year, in which delay occurred in giving the alarm to the Fire Brigade. The Brigade was called out on 526 occasions, as compared with 377 in the previous year.

11. The peace of the city was unfortunately broken by an outbreak of rioting which occurred on the 9th and 10th September and resulted in a lamentable loss of life. The causes which led to the disturbances were fully reviewed at the time, and it is unnecessary to re-open the matter. The police force of Calcutta were subjected to a severe strain, many of the officers and men being on duty for forty-eight hours at a stretch, and it is a matter for the highest satisfaction that no authenticated case of misconduct of any kind on the part of the police was brought to notice, while commendations of their behaviour during the riots were received from many varied sources.

12. The Governor in Council has read with pleasure the list of officers who have been commended by the Commissioner of Police for good work. To Mr. Clarke himself the special thanks of Government are due for his administration of the Calcutta Police during a year of unusual stress and difficulty.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner of Police, Calcutta, the Chief Presidency Magistrate, Calcutta, and the Commissioner of the Presidency Division, for information.

Ordered, also, that a copy of the Resolution and a copy of the Report be submitted to the Government of India in the Home Department.

Ordered, also, that the Resolution be published in the *Calcutta Gazette*.

By order of the Governor in Council,

J. H. KERR,

*Chief Secy. to the Govt. of Bengal.*



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, *i.e.*, by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the month of April, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta\* by rail, river, canal, road, and sea (coastwise) during the month of April, 1919, amounted to 2,557,000 maunds, as against 1,237,000 maunds in the corresponding period of the preceding year,—an increase of 107 per cent being chiefly due to the larger imports of rice from Burma. There was an increase (103 per cent) in the imports of coal and coke (9,109,000 maunds as against 4,498,000 maunds last year). The value of the imports by rail, river, road and sea (coastwise) of Indian cotton piece-goods showed an increase of 188 per cent, the total value amounting to Rs. 53,58,000 as against Rs. 18,61,000 in 1918. The quantity of indigo imported during the month of April, 1919, decreased by 1981 maunds or 94 per cent to 104 maunds. The imports of raw jute amounted to 222,000 bales as against 336,000 bales,—a decrease of 34 per cent. The importations of gunny bags also showed a decrease of 6 per cent (28 million bags as against 30 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 29 per cent from 549,000 maunds to 708,000 maunds. The imports of tea increased by 12 per cent from 137,000 maunds to 153,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta\* by all routes during the month of April, 1919, increased by 9 per cent (Rs. 2,63,87,000 as against Rs. 2,42,75,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) increased from 77 million bags to 99 million bags, and the shipments of gunny bags to other Indian ports increased from 5 millions to 7 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) decreased from 404,000 maunds to 369,000 maunds, or by 9 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.  
† One maund of paddy is equivalent to 25 seers of rice.



TABLE I

*Trade of Calcutta in certain selected articles for the month of April 1919, compared with the corresponding month of 1918*

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COASTWISE)	
	April, 1919.	April, 1918.	April, 1919.	April, 1918.
<b>Food-grains—</b>				
Rice ... .. Mds	2,369,076	1,092,508	467,740	164,725
Paddy ... .. "	310,457	231,567	68,360	...
Total (in rice) (b)	2,657,111	1,227,336	500,405	164,725
Wheat ... .. "	159,637	544,089	13,980	5,446
Wheat flour ... .. "	11,582	7,509	38,179	39,465
Gram and pulse ... .. "	611,422	529,428	312,362	177,357
Other food-grains ... .. "	61,443	65,807	4,149	6,111
Total food-grains	3,401,465	2,363,678	759,105	388,144
Coal and Coke ... .. "	9,109,750	4,409,442	31,632	169,046
Cotton, raw ... .. Bales	19,947	15,760	2,224	2,790
.. twist and yarn, Indian ... .. Mds	18,390	36,764	19,916	5,729
.. piece-goods, Indian ... .. Rs	33,69,392	18,60,905	43,671	189,917
Indigo ... .. Mds	104	2,085	744	2,608
Jute, raw ... .. Bales	222,193	325,830	193,683	57,484
.. gunny bags ... .. No	38,042,953	29,693,429	68,985,745	67,679,300
Lac ... .. Mds	98,257	44,511	41,065	27,709
Oilseeds—Linseed ... .. "	345,709	149,800	94,409	29,303
.. Rape and mustard ... .. "	269,665	400,129	2,726	20,513
Silk, raw ... .. "	153	36	310	...
Sugar—Refined ... .. "	7,609	29,609	4,246	2,339
.. Unrefined ... .. "	68,573	54,683	394	16
Tea (Indian) ... .. "	159,127	137,219	259,210	300,789
Tobacco—unmanufactured ... .. "	82,324	41,671	5,015	3,430
.. manufactured ... .. "	5,369	5,303	750	231
	IMPORTS.		EXPORTS	
	BY SEA (FOREIGN AND COASTWISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April, 1919.	April, 1918.	April, 1919.	April, 1918.
Cotton twist and yarn—foreign ... .. Mds	900	5,495	22,491	19,244
.. .. —Indian ... .. "	43	...	47,225	20,621
.. piece goods—foreign ... .. Rs	1,17,89,496	3,16,03,653	2,63,86,698	2,42,75,497
.. .. —Indian ... .. "	2,000	...	57,39,980	24,30,416
Kerosene oil (c) ... .. Mds	449,579	467,590	369,380	404,367
Salt ... .. "	626,750	779,013	1,006,601	755,376
Gunny bags ... .. No	...	...	16,604,342	14,469,282

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 25 seers of rice.

(c) Including figures of Budge-Budge trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River

Wharves Imported	FOOD-GRAINS								Coal and coke	Cotton raw	Cotton twist and yarn, Indian (b)	Cotton piece-goods, Indian (b) (c)	
	Rice and paddy			Wheat	Wheat flour	Gram and pulse	Other food-grains	Total					
	Rice	Paddy (a)	Total (in rice)										
BENGAL	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	No.	
Bardham	45,308	40,801	76,923		2	40		76,566	2,255,431				
Birbhum	59,501	409	59,910					59,167		1		1,280	
Bankura	70	6,079	6,149					6,088				1,120	
Midnapur	159,356	2,173	160,751			10,077		170,831		12		47,300	
Hooghly	139,634	30,712	149,019	234	217	2,486	140	142,286	6,486		2,997	62,717	
24 Parganas	384,642	111,763	496,405	293		2,638		411,719	11,284	62	2,860	99,000	
Nadia	9,966	781	10,443	6,221	2,166	60,049	2,759	63,667		38		6,400	
Murshidabad	14,477	11	14,484	893	13	30,164	1,319	36,663				640	
Jessore	11,646	6,463	18,386	50	65	45,162		60,862		8	9		
Khulna	70,172	76,292	117,455			6,855		124,710					
Rajahm	312		312	6,392		7,334		13,989				1,760	
Dinajpur	1,667	612	2,306			1,735	171	4,371				160	
Jaipalguri	222		222					222				640	
Darjeeling	89		89					89					
Bagpur	575	396	1,123	8,160	5	3,974		7,169		24		360	
Bogra	2,739	6,300	6,067			569		6,636		14			
Pabna	7		7	14,179		46,516		60,696					
Malda	396		396	1,476		501	263	2,685			14		
Cooch Behar	14		14	25				39					
Dacca	85	1	86			6,915	3,637	10,688		3,168	14		
Mymensingh	264		264	179		4,867	7,091	12,021		298	5	2,080	
Faridpur	9,981	400	10,321	6,913	186	28,173		44,813					
Bakarganj	248,132	101	248,195			627		248,722				160	
Tippura (including H. J. Tippura)		397	185				397	679					
Noakhali						446		446				1,993	
Chittagong	26,329		26,329			2,762		32,691					
Chittagong Port	284		284					284					
Total of Bengal	1,126,290	292,692	1,209,516	41,424	2,763	251,204	16,767	1,620,294	3,975,151	2,704	6,980	2,10,110	
OTHER PROVINCES AND PLACES													
Bihar and Orissa	563	62	626	11,826	294	201,621	26,612	240,089	6,725,545	61	108	6,480	
Assam	39,652	17,732	50,720			1,398	184	59,175	51		3	1,440	
U. P. of Agra and Oudh	282		282	108,139	6,704	25,964	641	142,491		272	41	1,22,220	
Punjab				218		25,916		26,134		694		1,398	
Sind and British Baluchistan													
Central Provinces and Berar						373		373		4,912	2,308	1,46,610	
Bombay					1			1	3	224	6,662	22,70,614	
Madras						11		11		1,104	1,100	12,22,621	
Burma	1,196,157		1,196,157			102,101	26,460	1,316,738					
Rajputana and Central India												66,340	
Nizam's Territory										186			
Mysore							1,159	1,159			696	92,760	
Port Blair													
GRAND TOTAL	1919	2,563,076	310,437	2,552,111	186,607	11,862	611,423	61,443	2,400,466	9,106,750	10,947	18,842	52,56,302
	1918	1,062,506	221,867	1,287,236	544,089	7,509	529,136	46,607	2,363,578	4,406,442	13,760	22,764	19,60,906
	1917	892,389	226,171	1,042,496	614,796	7,773	503,589	32,375	2,360,597	9,552,448	20,344	31,899	28,66,801

(a) One maund of paddy is equivalent to 35 seers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



II.

## Canal, and Sea (Coastwise) in the month of April, 1919.

Indigo	JUTE		Lac	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO		Whence imported	
	Raw (d)	Gunny-bags (e)		Linseed	Rape and mustard		Refined	Unrefined		Unmanufactured	Manufactured		
Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL	
100 000	100 000	6,194	1	100 000	988	100 000	100 000	100 000	100 000	100 000	2	Bardwan	
100 000	100 000	984	100 000	100 000	100 000	100 000	100 000	5	100 000	100 000	100 000	Birbhum	
100 000	100 000	1,478	17	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Bankura	
100 000	100 000	183	5,368	100 000	63	298	7	2,703	100 000	32	100 000	Midnapur	
100 000	100 000	3,077	8,488,822	100 000	100 000	100 000	100 000	9	8,676	1,141	289	Hooghly	
100 000	100 000	10,980	19,364,894	100 000	106	2,039	100 000	2,914	4,730	1	718	24 Parganas	
100 000	100 000	1,386	3,496	100 000	3,308	632	35	214	2,014	100 000	747	3 Nadia	
100 000	100 000	948	369	100 000	1,317	130	9	100 000	100 000	215	100 000	Murshidabad	
100 000	100 000	386	1,148	100 000	100 000	300	100 000	35,397	100 000	614	100 000	Jessore	
100 000	100 000	1,358	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Khulna	
100 000	100 000	2,109	100 000	100 000	3,866	109	100 000	100 000	100 000	100 000	100 000	Rajshahi	
100 000	100 000	1,385	7,372	100 000	100 000	578	100 000	100 000	100 000	4	100 000	Dinajpur	
100 000	100 000	11,569	320	13	100 000	850	100 000	100 000	38,467	22,165	100 000	Jalpaiguri	
100 000	100 000	189	369	100 000	100 000	100 000	100 000	1	12,397	100 000	10	Darjeeling	
100 000	100 000	15,579	7,396	100 000	282	100 000	100 000	100 000	100 000	13,090	100 000	Rangpur	
100 000	100 000	2,042	820	100 000	2,161	760	100 000	100 000	100 000	8	100 000	Bogra	
100 000	100 000	4,800	2,911	100 000	5,439	4,614	100 000	100 000	100 000	67	100 000	Pabna	
100 000	100 000	563	100 000	100 000	508	100 000	100 000	100 000	100 000	100 000	100 000	Maldah	
100 000	100 000	6,510	100 000	100 000	100 000	217	100 000	100 000	100 000	3,034	100 000	Cooch Behar	
100 000	100 000	74,398	1,599	100 000	94	392	100 000	100 000	100 000	100 000	100 000	Dacca	
100 000	100 000	28,096	164	100 000	134	1,604	100 000	7	100 000	100 000	7	Mymensingh	
100 000	100 000	3,789	287	100 000	1,429	1,985	100 000	100 000	100 000	52	100 000	Faridpur	
100 000	100 000	415	1,836	100 000	16	86	100 000	100 000	100 000	100 000	100 000	Bakarganj	
100 000	100 000	6,981	100 000	100 000	85	100 000	100 000	100 000	100 000	100 000	100 000	Tippura (including BHA Tippura)	
100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Noakhali	
100 000	100 000	616	100 000	100 000	100 000	100 000	100 000	100 000	491	100 000	100 000	Chittagong	
100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Chittagong Port	
100 000	100 000	170,315	27,897,263	166	30,898	15,461	53	3,144	43,436	51,289	42,899	1,035	Total of Bengal
OTHER PROVINCES AND PLACES													
96	35,719	20,842	16,980	210,783	33,340	138	9,530	262	32,063	4,350	100 000	Bihar and Orissa	
100 000	30,181	18,061	2,199	41,069	18,038	101	1	101,369	100 000	100 000	100 000	Assam	
8	105,863	6,532	67,673	208,776	63,468	676	3,568	190	13	68	100 000	U. P. of Agra and Oudh	
100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Punjab	
100 000	100 000	1,107	100 000	100 000	4,189	100 000	100 000	100 000	100 000	100 000	100 000	And and British Baluchistan	
100 000	100 000	7,134	351	2,367	1,046	100 000	100 000	100 000	100 000	100 000	100 000	Central Provinces and Berar	
100 000	100 000	100 000	100 000	100 000	14,888	146	100 000	100 000	1,437	42	100 000	Bombay	
100 000	100 000	164	100 000	690	1,189	2,506	19,339	4	4,437	63	100 000	Madras	
100 000	100 000	189	100 000	100 000	100 000	100 000	100 000	27	1,593	63	100 000	Burma	
100 000	100 000	100 000	100 000	100 000	2,370	2,734	100 000	100 000	18	100 000	100 000	Rajputana and Central India	
100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Nizam's Territory	
100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Mysore	
100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	Port Blair	
104 (f)	322,195	38,049,953	26,367	343,709	363,666	163	7,609	68,878	139,137	88,391	5,969	1919	
2,085	286,630	29,693,459	44,511	148,800	400,139	36	39,408	34,863	187,319	41,671	5,306	1918	
217	155,320	35,530,751	49,038	882,337	488,117	103	27,956	63,773	119,894	86,679	4,467	1917	
GRAND TOTAL													

(d) Excludes imports into the mills outside the Calcutta block, which are 119,911 bales, but includes imports into the Kidderpore Docks, namely, 9,163 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.

(f) Of this 81,897 bales came by rail, 125,302 bales by river, 1,938 bales by road and 10,038 bales by sea.



TABLE III

Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the month of April, 1919.

Routes	FOOD-GRAINS						Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b)(c)	Indigo
	Rice	Paddy (a)	Wheat	Wheat flour	Gram and pulses	Other food-grains					
	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Ba	Mds
By rail											
E. I. Railway...	104,897	68,010	67,639	9,091	290,350	38,431	6,362,327	1,071	160	2,36,314	8
E. B. Railway (including B. C. Railway)	218,318	38,830	35,854	2,464	159,504	1,763	869,632	343	61	54,680	96
A.-B. Railway...	1,086	31	...	...	821	...	...	...	3	1,380	...
B.-N. Railway...	43,963	6,143	...	...	1,298	1,169	2,345,390	7,178	11,744	48,77,388	...
B. & N.-W. Railway	367	...	30,086	...	31,736	6,163	...	...	11	...	...
D.-S. Railway...	...	...	...	...	...	...	...	...	...	...	...
Kalighat-Palta Railway	24,396	16,392	...	...	...	...	...	...	...	...	...
Howrah-Amra and Howrah-Seakhala Light Railways	8,704	1,033	...	17	2	...	...	...	...	7,840	...
By river steamers											
Bengal and Bihar	86,376	1,336	2,961	...	15,473	11,115	...	2,368	38	60,963	...
Orissa	...	...	24	...	2,048	26	...	...	...	...	...
Assam	12,579	14,241	...	...	...	164	51	...	...	...	...
U. P. of Agra and Oudh	...	...	8	9	127	...	...	...	...	...	...
By boat	599,884	161,008	2,555	300	58,031	143	1,062	2	4,241	27,900	...
By road	65,009	8,483	...	...	852	...	18,238	57	2,100	1,00,977	...
By sea	1,196,163	...	...	1	102,382	18,480	...	...	...	...	...
Total											
1919	2,363,076	310,487	168,807	11,882	611,422	61,443	9,108,760	10,947	19,348	53,66,302	104
1918	1,092,508	231,667	344,009	7,509	639,138	46,607	4,406,442	12,760	22,764	16,60,905	2,085
1917	889,380	336,171	614,795	7,772	583,559	32,275	2,552,443	30,344	31,899	22,66,801	317

Routes	JUTE		Lac	OILSEEDS		Silk, raw	SUGAR		Tea Indian	TOBACCO	
	Raw (d)	Gunny bags (e)		Linseed	Rape and mustard		Refined	Unrefined		Unmanufactured	Manufactured
	Bales of 400 lbs	No.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
By rail											
E. I. Railway...	2,911	122,143	11,107	80,508	261,605	...	170	6,545	351	363	3,383
E. B. Railway (including B. C. Railway)	80,658	31,383	1,923	20,174	12,383	195	...	22,104	54,346	65,536	17
A.-B. Railway...	...	16,336	22	3,522	...	...	1	...	37,483	...	...
B.-N. Railway...	439	14,473	12,009	2,928	4,058	...	3,650	6,486	65	6,633	...
B. & N.-W. Railway	796	3,157	...	200,270	61,143	...	644	6,598	56	5,862	263
D.-S. Railway	...	...	...	...	...	...	...	...	18,664	...	...
Kalighat-Palta Railway	...	...	...	...	...	...	...	...	...	...	...
Howrah-Amra and Howrah-Seakhala Light Railways	80	3,413	...	...	...	...	6	40	...	...	...
By river steamers											
Bengal and Bihar	98,150	7,749	...	3,104	1,803	7	7	1,257	421	139	7
Orissa	...	164	...	...	1,971	...	...	...	...	1,892	2,116
Assam	16,116	994	353	25,984	14,333	41	...	...	51,716	...	...
U. P. of Agra and Oudh	...	287	...	...	...	...	...	...	...	...	...
By boat	16,036	27,430,472	...	1,108	5,759	...	377	16,830	1	1,667	...
By road	1,938	169,222	...	90	...	...	2,742	7,056	...	1,103	1,013
By sea	10,068	8,370	139	...	910	...	...	37	4	1,628	119
Total											
1919	322,104	28,042,063	26,357	346,709	362,865	133	7,809	69,373	162,127	63,324	3,959
1918	325,830	29,693,429	44,511	145,600	400,139	26	29,608	54,662	127,319	41,671	5,206
1917	188,230	25,690,761	49,026	252,387	485,117	103	37,986	53,772	119,864	49,679	4,437

(a) One mound of paddy is equivalent to 25 mounds of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mills outside the Calcutta block, which are 119,311 bales, but includes imports into the Kidderpore Docks, namely, 9,111 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coastwise) in the month of April, 1919.*

	COTTON TWIST AND YARN		COTTON PIECE-GOODS		Kerosene oil	Salt
	Foreign	Indian	Foreign	Indian		
<b>FOREIGN—</b>	Mds	Mds	Ts	Ts	Mds	Mds
From United Kingdom	545	.....	88,44,306	.....	5	262,630
„ Other countries	879	.....	28,91,936	.....	26,085	372,129
Total	1424	.....	1,17,36,242	.....	31,090	634,759
<b>COASTWISE—</b>						
From British Ports in—						
Bihar and Orissa	11	.....	.....	.....	.....	.....
Burma	55	42	5,02,336	2,000	422,329	.....
Total	66	42	5,02,336	2,000	422,329	.....
<b>GRAND TOTAL</b>						
1919	1490	42	1,17,38,578	2,000	448,419	634,759
1918	5,405	.....	2,19,05,655	.....	467,590	779,012
1917	5,400	146	1,18,49,265	4,650	351,416	980,117



TABLE V

**Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the month of April, 1919.**

	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat flour	Gram and pulse	Other food-grains	Total				
Coastwise—	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs
To British Ports In—												
Bengal ...	9	...	9	...	30	13	...	44	...	...	...	4,730
Bihar and Orissa	7,669	2,722	9,790	...	444	841	...	10,075	...	...	392	...
Bombay	...	...	...	...	...	...	...	...	...	...	...	...
Madras	266,380	66,338	306,999	2,737	524	163,516	...	163,140	...	...	...	...
Burma	2,311	...	2,311	11,953	22,978	6,270	2,118	44,980	21,469	60	16,454	39,941
Total	264,778	68,360	307,908	13,980	23,966	170,642	2,118	318,189	21,469	60	16,846	46,671
To Foreign countries—												
„ United Kingdom	...	...	...	...	...	372	...	372	...	110	...	...
„ Other countries	192,962	...	192,962	...	4,313	41,488	2,031	240,844	163	9,054	2,070	...
Total	192,962	...	192,962	...	4,313	41,710	2,031	240,916	163	9,164	2,070	...
GRAND TOTAL												
1919	457,740	68,360	500,465	13,980	28,179	212,332	4,149	709,105	21,632	9,224	18,916	43,671
1918	166,735	...	166,735	4,446	20,465	177,387	6,111	389,144	169,046	2,790	5,739	1,36,017
1917	24,104	...	24,104	5,782	33,980	81,983	4,867	150,735	2,451,198	1,120	9,094	2,07,734

	Indigo	JUTE		Lac	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO	
		Raw	Gunny bags (b)		Linseed	Rape and mustard		Refined	Un-refined		Un-manufactured	Manufactured
Coastwise—	Mds	Bales of 400 lbs.	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
To British Ports In—												
Bengal ...	...	...	...	...	...	...	...	537	8	1	9 39	25
Bihar and Orissa	...	...	3,100	...	...	136	...	205	...	...	173	23
Bombay	...	...	...	...	...	...	...	...	...	...	...	...
Madras	108	6	10,500	105	...	494	...	2,028	...	...	...	...
Burma	...	6	6,569,300	139	...	828	...	1,485	286	1,332	1,372	615
Total	108	12	6,582,900	244	...	1,408	...	4,345	294	1,333	1,594	663
To Foreign countries—												
„ United Kingdom	248	123,223	12,378,150	7,717	44,142	...	310	1	...	222,636	...	5
„ Other countries	88	69,849	70,122,793	33,094	50,267	1,358	...	...	...	24,241	2,431	163
Total	636	193,071	82,400,943	40,811	94,409	1,368	310	1	...	267,677	2,431	167
GRAND TOTAL												
1919	744	193,083	88,982,743	41,053	94,409	2,726	310	4,246	294	236,210	5,015	760
1918	2,808	57,484	67,079,500	27,759	29,203	20,515	...	2,239	16	200,789	2,430	231
1917	2,083	93,408	99,778,617	41,459	66,110	16,221	215	141	875	186,144	5,756	644

(a) One maund of paddy is equivalent to 35 seers of rice.  
 (b) Including gunny cloth, 2 yards of cloth=1 bag.



TABLE VI

**Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the month of April, 1919.**

Whither exported	COTTON TWIST & YARN		COTTON PIECEGOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budge-Budge‡	
BENGAL	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
Burdwan	27	791	5,48,158	47,360	142,823	3,708	12,010	25,766
Birbhum	5	1,620	8,75,711	13,440	74,945	36	3,361	18,055
Bankura	43	1,306	1,18,552	...	23,493	4	...	12,570
Midnapur	2,227	1,723	7,22,018	42,660	78,501	927	5,441	25,916
Hooghly	1,382	...	1,54,442	18,676	42,030	5,639	10,081	23,094
24 Parganas	212	502	81,627	39,312	89,673	7,443	8,717	21,310
Nadia	308	4,328	12,46,649	1,30,160	237,821	25	3,887	23,007
Murshidabad	8	1,212	8,74,367	66,080	159,039	...	2,099	24,088
Jessore	202	628	2,18,218	75,200	48,124	25	8,691	18,708
Khulna	346	123	2,22,229	61,640	57,769	80	2,799	11,576
Bajeshahi	...	43	4,60,492	25,120	46,320	23	1,890	14,259
Diuaipur	...	120	2,22,452	22,400	28,223	...	1,522	23,816
Jalpaiguri	13	579	2,89,226	58,720	55,227	43	3,280	19,963
Darjeeling	271	344	3,92,552	42,040	68,716	125	4,775	23,442
Rangpur	81	452	8,68,559	1,11,040	41,184	8	3,942	43,652
Bogra	...	228	6,55,259	2,48,800	20,746	...	4,176	28,202
Pabna	722	992	8,90,104	2,44,000	107,871	19	20,326	26,101
Malda	...	561	89,982	1,20,000	52,480	...	...	9,687
Cooch Behar	...	59	2,68,080	22,400	16,564	10	1,106	7,906
Dacca	2,128	172	5,81,250	1,45,522	27,347	126	54,115	52,076
Mymensingh	761	216	4,60,022	5,52,960	11,602	21	7,921	58,418
Faridpur	1,411	415	2,62,287	1,68,640	72,152	41	1,612	28,208
Bakarganj	1,261	89	1,91,885	2,59,040	68,880	...	2,426	19,125
Tippera (including Hill Tippera)	701	658	2,15,821	2,300	29,274	6	...	16,642
Noakhali	206	585	47,326	20,560	4,879	...	...	281
Chittagong	429	25	46,412	11,360	104,204	...	...	20
Chittagong Port	6	110	2,22,156	42,411	4,029	...	...	...
<b>Total of Bengal</b>	<b>12,929</b>	<b>17,827</b>	<b>1,12,63,156</b>	<b>27,00,742</b>	<b>1,777,221</b>	<b>18,422</b>	<b>179,190</b>	<b>601,686</b>
<b>OTHER PROVINCES AND PLACES</b>								
Bihar and Orissa	1,932	11,200	81,26,707	17,68,207	1,461,470	405	87,650	222,125
Assam	1,552	1,228	16,45,700	2,95,507	220,826	1,028	678	78,979
U. P. of Agra and Oudh	289	451	26,82,870	7,97,442	1,899,120	216	72,149	2,012
Punjab	420	44	8,50,028	16,795	424,214	4	4,908	...
Sind and British Baluchistan	...	...	1,04,829	...	712,224	...	...	...
Central Provinces and Berar	...	41	1,69,029	3,417	489,681	77	1,919	602
Bombay	20	1	2,62,786	...	1,262,264	...	...	...
Madras	120	484	1,22,159	1,18,040	1,261,408	309	...	...
Burma	4,012	16,464	6,52,298	25,941	9,569,209	...	...	14
Rajputana and Central India	6	12	1,64,227	1,049	270,212	93	2,088	...
Nizam's Territory	...	2	14,945	...	59,224	...	...	...
Mysore	...	...	...	...	26,006	...	...	...
Port Blair	...	...	...	4,720	...	...	...	...
<b>GRAND TOTAL</b>								
1919	22,491	47,825	2,62,68,688	37,29,990	16,604,242	20,625	249,705	1,006,601
1918	20,224	20,621	2,42,72,497	24,20,416	14,469,282	22,224	222,042	755,272
1917	18,099	20,789	2,24,77,122	19,72,204	12,220,049	20,222	227,602	526,762

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 2 yards of cloth = 1 bag.

‡ The exports of kerosene oil from Budge-Budge to Calcutta were 72,521 maunds in the month of April, 1919, as against 145,062 maunds and 81,622 maunds in the corresponding months of 1918 and 1917, respectively.



TABLE VII

**Statement of the Routes by which the Articles enumerated in Table No. VI were exported from the Calcutta Trade Block in the month of April, 1919.**

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny-bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budget	
	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
E. I. Railway ...	1,103	6,986	49,05,779	9,68,070	1,863,819	4,005	117,786	197,877
E. D. Railway (including B. C. Railway)	647	11,153	69,69,758	16,90,080	1,146,006	972	52,000	207,828
A.-B. Railway ...	231	2,010	14,51,848	91,838	26,240	450	29	16,517
H.-K. Railway ...	385	6,967	9,54,628	2,63,458	699,399	409	400	135,739
B. & N. W. Railway ...	43	1,883	59,85,650	10,54,134	589,434	57	22,856	60,111
O. & N. Railway ...	60	36	9,57,173	58,850	202,264	92	26,211	7
Howrah-Amta and Howrah-Sankhal Light Railways	168	...	75,091	...	8,118	10-2	...	6,321
By rail ...								
N. W. Railway ...	311	83	6,45,100	4,480	1,076,060	4	2,264	...
G. I. P. Railway ...	80	...	4,37,684	4,377	1,625,573	102	426	...
B. R. & C. I. Railway ...	52	16	1,34,169	640	99,507	2	...	...
M. & B. M. Railway ...	26	155	50,430	67,200	1,094,554	224	...	...
E. I. Railway ...	...	...	...	569	231,814	...	...	...
J. B. Railway ...	...	9	31,103	1,050	22,878	...	...	...
N. G. S. Railway ...	...	3	14,846	...	16,769	...	...	...
Other Railways ...	...	...	22,602	18,403	27,392	202	2,607	1,673
Bengal ...	10,694	1,373	29,27,663	11,62,008	271,378	119	96,354	144,077
Bihar and Orissa ...	463	98	1,25,374	16,960	463,856	8	...	...
river steamer								
Assam ...	1,420	331	6,90,149	2,15,560	160,851	467	390	44,680
U. P. of Agra and Oudh	...	6	12,215	7,020	51,209	...	...	...
boat ...	1,121	...	79,200	1,200	28,084	2,863	14,941	73,292
road ...	1,203	32	93,828	36,898	47,687	9,317	937	12,013
sea ...	4,409	16,846	6,53,958	43,671	6,582,800	...	...	14
1910 ...	22,481	47,836	2,65,86,298	67,39,960	16,604,342	20,625	346,705	1,005,601
1918 ...	10,854	20,821	2,42,75,467	24,30,416	14,459,389	22,224	382,048	789,379
1917 ...	10,086	20,750	2,34,77,163	19,73,504	15,320,049	20,332	469,228	628,762

\*The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.  
†Including gunny cloth, 2 yards of cloth=1 bag.

DEPARTMENT OF STATISTICS, INDIA,

G. FINDLAY SHIRRAS,

June 28, 1919.

Director of Statistics



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 26th June 1919.

**Summary.**—Seasonable rain generally fell throughout the province and the weather was favourable for standing crops and agricultural operations. More rain is, however, needed for transplanting of paddy seedlings. The average price of common rice for the province shows a slight tendency to fall as compared with that of the previous week. Distress continues to be reported from parts of Murshidabad, Tippera and the Chittagong Hill Tracts. The average number of persons engaged daily on test works in the Brahmanbaria subdivision of the Tippera district was 2,456.

Serial No.	District and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERs. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	0.77	5½	5½	Transplanting of <i>aman</i> paddy and sowing of winter rice continue. Fodder and water are sufficient.
	Diamond Harbour.	1.47	5	5	
	Barrackpore	1.11	5½	5½	
	Barasat ...	1.42	5½	5½	
	Basirhat ...	Nil	6½	6½	
2	NADIA ...	2.40	5½	5½	More rain is wanted. Prospects of crops are fair; weeding continues. Fodder supply is sufficient.
	Kushtia ...	1.32	5½	5	
	Meherpur ...	3.06	5½	5½	
	Chuadanga ...	2.26	5½	5½	
	Ranaghat ...	3.44	5½	5½	
3	MURSHIDABAD	3.00	5	5	Prospects of standing crops are favourable. Weeding of <i>aus</i> paddy and jute continues. More rain is wanted for transplanting of <i>aman</i> paddy. Cattle-disease is reported from Mirzapur and Raghunathganj in Jangipur subdivision. Distress is apprehended in some parts of the Sadar, Jangipur and Lalbagh subdivisions. Fodder is sufficient. No large import or export. Price of rice has slightly fallen.
	Lalbagh ...	6.83	5½	5½	
	Jangipur ...	3.66	5½	5	
	Kandi ...	(n)	(n)	5½	
4	JESSORE ...	3.36	6	6	The recent rainfall has been favourable to agricultural operations. Weeding of jute and <i>aus</i> paddy continues. Standing crops are doing well. Fodder supply is sufficient. Cattle-disease is reported from thana Narail.
	Jhenidah ...	4.27	6½	6½	
	Magura ...	2.37	6	6½	
	Narail ...	1.32	5½	5½	
	Bangaon ...	3.61	5	5½	
5	KHULNA ...	4.50	5½	5½	Lands are being prepared for <i>aman</i> paddy. Fodder and water are sufficient.
	Satkhiria ...	1.60	5½	5½	
	Bagerhat ...	1.36	5½	5½	

(n) Not reported.



Serial No.	Districts and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SENNA, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	0.91	5½	5½	Weather hot. Rain is urgently needed. Sowing and transplanting of paddy are being retarded for want of sufficient rainfall. Jute and sugarcane are growing well.
	Asansol ...	4.97	5	4	
	Katwa ...	3.84	5½	5½	
	Kalna ...	2.93	5½	5½	
7	BIRBHUM ...	2.10	5½	5	Ploughing and sowing continue. Fodder and water are sufficient.
	Rampurhat	1.38	5	5	
8	BANKURA ...	4.95	5	5	Sowing of paddy and ploughing of lands are going on. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	0.69	5½	5½	
9	MIDNAPORE	4.35	5 to 5½	5½	Weather hot and cloudy. The sowing of broad-cast winter rice is going on. The prospects of tobacco are fair. Fodder supply is sufficient.
	Ghatal ...	1.21	5½ to 5¾	5½	
	Tamluk ...	3.62	4¾ to 5½	5½	
	Contai ...	2.68	6 to 6½	5½	
10	HOOGHLY ...	0.76	5	5	The effect of weather is favourable. Fodder is sufficient. Price of rice fell a little, but is again rising.
	Serampore ...	1.10	5½	5½	
	Arambagh ...	(n)	(n)	(n)	
11	HOWRAH ...	1.82	5½	5½	Weather cloudy. Weeding of jute continues. Lands are being prepared for paddy seedlings. Sugarcane crop is doing well. Fodder is sufficient.
	Ulubaria ...	2.31	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	4.12	5	5	The prospects of standing crops are favourable. Fodder is sufficient.
	Naogaon ...	6.54	5½	5½	
	Nator ...	2.34	4½	4½	

(n) Not reported.



Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN KHEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ... Thakurgaon Balurghat ...	4.50 10.39 6.49	5½ 6 5	5½ 6½ 5	Rainfall is sufficient. Fodder and water are plenty.
14	JALPAIGURI Alipur ...	13.56 14.51	5½ 4½	5½ 5½	Weather rainy. Prospects of standing crops are fair. The recent rain has facilitated transplantation of winter paddy. Fodder is sufficient. Cattle-disease is prevailing in Mainaguri tahsil.
15	DARJEELING Kurseong ... Siliguri ... Kalimpong ...	7.29 (n) (n) (n)	4½ (n) (n) (n)	4½ 4 4 5	Harvesting of potatoes continues. Jute and other <i>bhadoi</i> crops are doing well. The supply of fodder and water is sufficient. Stock of food-grains is below normal.
16	RANGPUR ... Nilphamari Kurigram ... Gaibandha ...	9.95 11.05 13.75 13.23	5 5½ 6 6	5 6 6 6	Weather seasonable. Effects of rainfall to all standing crops are good. Harvesting of early <i>aus</i> paddy continues. Lands are being prepared for winter paddy. Fodder and water are sufficient. The export of rice is still going on.
17	BOGRA ...	0.06	5½	5½	More rain is wanted. Lands are being prepared for transplanted winter paddy. The prospects of standing crops are fair. Fodder and water are sufficient except in flooded area.
18	PABNA ... Sirajganj ..	2.11 2.35	5½ 5	5½ 5	Prospects of jute and paddy are hopeful. Fodder is sufficient.
19	MALDA ...	1.11	5½	5	More rain is wanted for transplanting of winter paddy. No want of fodder and water.
20	COOCH BEHAR	16.85	6½	6½	Weather cloudy and rainy. Harvesting of <i>bitri</i> paddy has commenced. Preparation of lands for winter paddy and transplantation of seedlings are going on briskly. Fodder is sufficient.
21	DACCA ... Manikganj... Narayanganj Munshiganj*	1.77 3.48 3.06 2.88	5½ to 5½ 5 5½ 5½	5½ to 5½ 5 5½ 5½	Weather seasonable and beneficial to jute and <i>aus</i> paddy. Harvesting of <i>til</i> crop continues and that of <i>aus</i> paddy has commenced. The prospects of standing crops are good but caterpillars are causing some damage to jute.

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kaptasia thana are reported here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN PESHAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
22	MYMENSINGH	8.34	5½	5½	Prospects of standing crops are good. Fodder and water are sufficient.
	Jamalpur ...	(n)	(n)	5½	
	Tangail ...	(n)	(n)	5	
	Netrakona ...	(n)	(n)	5½	
	Kishorganj...	(n)	(n)	5½	
23	FARIDPUR ...	(n)	(n)	5½	Report not received.
	Goalundo ...	(n)	(n)	6½	
	Madaripur ...	(n)	(n)	5½	
	Gopalganj*...	(n)	(n)	5½	
24	BAKARGANJ (BARISAL).	1.01	5	5	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	9.58	5½	5	
	Patuakhali...	2.21	5	(n)	
	Dakshin Shabazpur (Bhola).	1.55	5½	5½	
25	CHITTAGONG	2.96	6	6	Weather fair. Prospects of standing crops are fair. Sowing of <i>aus</i> paddy is in progress. <i>Panga</i> salt is selling at 11 seers per rupee at Sadar. Fodder is sufficient.
	Cox's Bazar	9.03	5½	5½	
26	TIPPERA (COMILLA).	4.59	5	5	Weather rainy. The prospects of standing crops have further improving owing to the rainfall: 1,990 men, 298 women and 168 children worked daily on an average in test works in Brahmanbaria subdivision. Cattle-disease is reported from Brahmanbaria subdivision.
	Brahmanbaria.	1.70	5½	5½	
	Chandpur ...	2.40	5	5	
27	NOAKHALI ...	6.74	4½	4½	Weather seasonable. Prospects of standing crops are good. Fodder sufficient.
	Feni ...	4.85	{ 5½ } { 6½ }	{ 4½ } { 5½ }	
28	CHITTAGONG HILL TRACTS.	1.64	5	5	General scarcity prevails among Jhumiahs in Bohmong and Chakcuna circles. <i>Jhum</i> sowing is practically completed.

\* The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
 (n) Not reported.  
 † Bangoon rice.  
 ‡ *Aus* rice.

CAMP, CALCUTTA, the 28th June 1919.

J. C. ROY,  
 for Director of Agriculture, Bengal.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of June 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	3 12 0	3 0 0	3 2 0	3 8 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Bardwan ...	4 0 0	4 0 0	1 10 0	2 2 5	3 12 0	3 2 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 4 0	4 4 0	1 12 0	2 4 0	3 0 0	3 0 0	...
Chittagong ...	4 0 0	4 0 0	(c)	2 10 0	3 0 0	2 14 0	...
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	4 8 0	4 8 0	2 4 0	3 0 0	3 4 0	4 2 0	...
Narayanganj (n) ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 8 0	4 8 0	2 4 0	2 12 0	3 4 0	3 10 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	4 0 0	4 0 0	1 10 0	2 14 0	3 4 0	3 0 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 4 0	2 10 0	3 2 0	3 0 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Bardwan ...	3 12 0	3 14 0	1 8 0	2 0 0	3 8 0	3 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 0 0	4 0 0	1 7 0	2 0 0	3 0 0	2 10 0	...
Chittagong ...	4 0 0	4 0 0	(c)	2 9 0	2 14 0	2 12 0	2 10 0
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	4 0 0	4 0 0	2 0 0	3 0 0	3 0 0	3 8 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 8 0	4 8 0	1 14 0	2 8 0	3 0 0	3 8 0	3 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	3 8 0	3 8 0	1 4 0	2 8 0	2 8 0	2 8 0	3 0 0

(c) No sale.  
(n) Not reported.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of June 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	6 8 0	7 0 0	7 14 0	7 8 0	6 12 0
Onedia Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 8 0	9 8 0	4 12 0	5 4 0	9 0 0	6 10 0	6 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	7 8 0	3 8 0	4 12 0	6 0 0	5 8 0	5 8 0
Chittagong ...	12 0 0	12 0 0	8 0 0	7 12 0	10 0 0	9 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	8 4 0	8 4 0	4 8 0	5 12 0	6 0 0	7 0 0	6 8 0
Narayanaganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Medanipur ...	...	...	...	...	...	...	...
Pabna ...	10 0 0	8 8 0	6 0 0	7 0 0	7 2 0	8 0 0	8 0 0
Hirajganj ...	...	...	...	...	...	...	...
Naugpur ...	8 8 0	9 0 0	4 8 0	6 4 0	6 8 0	7 8 0	7 8 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	5 10 0	6 0 0	6 4 0	6 12 0
Onedia Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 12 0	8 0 0	3 0 0	3 4 0	5 4 0	4 10 0	4 14 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 8 0	7 0 0	2 14 0	4 2 0	6 0 0	4 12 0	4 10 0
Chittagong ...	6 8 0	6 0 0	3 11 0	4 8 0	6 0 0	4 8 0	4 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	7 8 0	7 8 0	4 0 0	5 0 0	5 12 0	6 0 0	6 0 0
Narayanaganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Medanipur ...	...	...	...	...	...	...	...
Pabna ...	7 8 0	8 0 0	3 8 0	4 8 0	5 0 0	5 12 0	5 8 0
Hirajganj ...	...	...	...	...	...	...	...
Naugpur ...	7 12 0	7 12 0	3 8 0	4 12 0	5 0 0	6 8 0	6 2 0



### Wholesale prices-current of food grains, oil, etc., in the under-mentioned parts of Bengal for the first half of June 1919.

Mark.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	3 3 0	2 3 0	3 3 0	4 3 0	3 14 0	4 3 0	4 4 0
Chakla Hat ...	...	...	...	...	...	...	...
Burdwan ...	(a)	(a)	4 3 0	5 12 0	5 3 0	5 3 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	3 12 0 to 3 0 0	3 3 0 to 3 0 0	3 4 0	3 0 0	3 12 0	3 4 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	4 3 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	(a)	7 0 0	3 10 0	4 0 0	...	...	3 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	3 12 0	3 0 0	3 4 0	3 4 0	3 5 0	3 3 0	4 12 0

(a) Not in stock.

Mark.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	3 0 0	3 0 0	3 3 0	4 12 0	5 0 0	5 3 0	...
Chakla Hat ...	...	...	...	...	...	...	...
Burdwan ...	11 3 0	12 0 0	3 3 0	4 10 0	5 0 0	6 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	10 3 0 to 11 0 0	10 3 0	7 0 0	5 12 0	4 4 0	4 4 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	3 0 0	3 0 0	3 3 0	7 3 0	7 0 0	6 4 0	...

\* Figures not available.



**Wholesale prices current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of June 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 0 0	7 0 0	4 8 0	3 0 0	3 2 0	3 7 0	3 12 0
Chota Hat ...							
Burdwan ...	7 8 0	7 8 0	3 4 0	3 6 0	3 12 0	3 12 0	4 0 0
Kalna ...							
Raniganj ...							
Midnapore ...	7 4 0	7 8 0	4 0 0	3 16 0	4 0 0	4 8 0	
Chittagong ...	to 7 12 0	to 7 12 0	to 4 4 0	4 0 0	4 0 0	5 4 0	
Chandpur ...	7 8 0	12 8 0	4 0 0				
Dacca ...							
Narayanganj ...							
Mymensingh ...							
Madaripur ...							
Pabna ...							
Sirajganj ...							
Barisal ...	8 0 0	8 0 0	5 4 0	7 0 0	7 0 0	8 10 0	

Marts.	ANNAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	10 0 0	9 8 0	8 0 0	4 8 0	5 0 0	6 4 0	5 0 0
Chota Hat ...							
Burdwan ...	12 0 0	(a) ...	5 12 0	4 2 0	6 0 0	6 0 0	6 2 0
Kalna ...							
Raniganj ...							
Midnapore ...	10 8 0	10 8 0	8 4 0	5 0 0			
Chittagong ...	to 12 0 0	to 11 8 0	to 7 0 0	to 8 0 0	6 12 0	6 0 0	
Chandpur ...	11 4 0	10 0 0	6 0 0	6 8 0	7 8 0	7 0 0	7 0 0
Dacca ...							
Narayanganj ...	11 4 0	11 4 0	6 0 0	6 0 0	7 0 0	8 4 0	7 4 0
Mymensingh ...							
Madaripur ...							
Pabna ...	11 5 0	12 0 0	8 0 0	8 0 0	7 4 0	8 0 0	8 0 0
Sirajganj ...							
Barisal ...	(a) ...	11 0 0	8 8 0	7 8 0	7 0 0	6 10 0	6 2 0

(a) Not in stock.



**Wholesale prices-current of food-grains, &c., in the undermentioned marts of Bengal for the first-half of June 1919.**

Marts.	LINSEED.			MUSTARD.			GUR.			COTTON (UNGIKED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	58	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	5 3 0	11 8 0	11 8 0	6 0 0	7 12 0	7 12 0	6 0 0	25 0 0	25 0 0	40 0 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	6 4 0	12 0 0	12 0 0	7 0 0	8 0 0	7 0 0	6 0 0	(a).....	(a).....	32 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Haniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	14 0 0	7 8 0 to 8 0 0	4 4 0	14 12 0 to 15 12 0	14 0 0 to 15 2 0	7 4 0 to 8 0 0	7 12 0 to 8 0 0	7 12 0 to 8 0 0	8 4 0 to 9 0 0	40 0 0	40 0 0	40 0 0
Chittagong	10 0 0	10 0 0	10 0 0	12 0 0	12 0 0	7 0 0	10 0 0	12 0 0	6 0 0	16 0 0	16 0 0	20 0 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	12 0 0	12 0 0	5 0 0	11 0 0	11 0 0	7 0 0	10 0 0	10 0 0	9 0 0	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	(a)	(a)	4 5 0	(a)	12 11 0	7 0 0	8 0 0	8 0 0	7 0 0	.....	.....	.....
Strajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	.....	.....	.....	12 0 0	12 0 0	6 4 0	11 8 0	11 8 0	6 0 0	.....	.....	.....

Marts.	JUTE.			GHER.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P. Per 100 pieces.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 0 0	75 0 0	75 0 0	65 0 0	325 0 0	450 0 0	450 0 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	6 5 0	75 0 0	75 0 0	55 0 0 to 61 0 0	(a).....	(a).....	40 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Haniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	7 0 0	7 0 0	5 0 0	74 0 0 to 80 0 0	74 0 0 to 80 0 0	60 0 0 to 65 0 0	325 0 0	325 0 0 Uncleaned piece per 100.	200 0 0
Chittagong	.....	.....	.....	75 0 0	75 0 0	65 0 0	300 0 0	300 0 0	175 0 0
Chandpur	5 10 0 to 6 0 0	5 12 0 to 6 0 0	3 12 0 to 5 12 0	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	77 0 0	77 0 0	50 0 0	.....	.....	.....
Narayanganj	6 4 0 to 10 4 0	6 0 0 to 10 0 0	(b)	.....	.....	.....	.....	.....	.....
Mymensingh	5 0 0 to 10 0 0	5 0 0 to 11 0 0	4 0 0 to 5 0 0	.....	.....	.....	.....	.....	.....
Madaripur	(b).....	(b).....	(b)	.....	.....	.....	.....	.....	.....
Pabna	.....	.....	.....	72 0 0	75 0 0	75 0 0	.....	.....	.....
Strajganj	4 0 0 to 6 0 0	4 0 0 to 6 0 0	3 0 0 to 4 0 0	.....	.....	.....	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0
Rangpur	7 0 0	8 0 0	4 0 0	72 0 0	72 0 0	60 0 0	.....	.....	.....

(a) Not in stock.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of June 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	78	80	81	83	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	16 0 0	16 0 0	30 0 0	3 3 0	3 3 0	3 13 0	4 2 0(a)	4 4 0(a)	2 11 0
Chella Hat	...	...	...	...	...	...	...	...	...
Burdwan	16 0 0	16 0 0	20 0 0	3 3 0	3 3 0	4 1 0	2 7 0(b)	2 6 0(b)	3 5 0
Kalna	...	...	...	...	...	...	...	...	...
Baughaj	...	...	...	...	...	...	...	...	...
Midnapore	3 0 0 to 12 0 0	3 0 0 to 15 0 0	2 0 0 to 24 0 0	3 3 0	3 3 0	4 5 0	4 0 0(b)	3 4 2(b)	5 3 0
Chittagong	24 0 0	24 0 0	30 0 0	3 4 0	3 4 0	4 0 0	4 0 0(c)	4 0 0(c)	2 4 0
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	...	...	...	3 12 0	3 12 0	4 3 0	4 3 0(b)	4 3 0(b)	4 9 0
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	30 0 0 to 25 0 0	30 0 0 to 25 0 0	27 0 0	3 12 0	4 0 0	4 0 0	3 0 0	4 12 0(h)	4 10 0
Birajganj	...	...	...	...	...	...	...	...	...
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 5 0	4 5 0(h)	3 8 3	4 3 0

(a) Monkey brand. | (b) Nining Sun. | (c) Not in stock. | (d) Victoria brand. | (e) Mosque mark. | (f) Hen Brand.  
(g) Elephant brand. | (h) Gold Mohur.

Marts.	MUSTARD OIL.			PIRWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	19 0 0	0 10 0	0 10 0	0 14 0	...	...	...
Chella Hat	...	...	...	...	...	...	...	...	...
Burdwan	36 0 0	36 0 0	19 0 0	0 3 0	0 3 0	0 10 0	0 7 6	0 7 6	0 12 0
Kalna	...	...	...	...	...	...	...	...	...
Baughaj	...	...	...	...	...	...	...	...	...
Midnapore	37 0 0 to 38 0 0	35 0 0	20 0 0 to 22 0 0	0 7 0	0 7 0	0 7 0	0 2 3	0 2 3	0 3 2
Chittagong	37 0 0	35 0 0	24 0 0	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	37 0 0	37 0 0	23 0 0	...	...	...	...	...	...
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	32 0 0	28 0 0	20 0 0	...	...	...	...	...	...
Birajganj	...	...	...	...	...	...	...	...	...
Rangpur	20 0 0	20 0 0	21 0 0	...	...	...	...	...	...

DACCA,  
The 26th June 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of June 1919.**

DIVISION.	Number.	DISTRICTS AND MAHLS.	QUANTITY PER RUPEE IN SERIES OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURR. CADJAN P'KA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
PRESIDENCY.		24- ANGANA.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.
	1	Chota Hat ...	8 0	8 0	8 10	8 5	8 5	10 10	4 0	4 0	7 0	4 0	4 0	8 0	10 0	11 0	9 2
	2	Magra Hat ...	8 0	8 0	10 10	8 5	8 15	11 7	(a)	(a)	7 0	3 10	3 10	7 0	11 12	11 0	9 12
	3	Calcutta-Bellaghata	5 3	5 3	8 6	5 3	5 3	10 0	4 11	4 11	7 0	3 12	4 0	7 10	10 0	10 0	10 0
		WADIA.															
	4	Osari ...	5 4	5 4	11 7	6 2	6 4	12 5	3 5	3 5	5 5	3 5	3 5	7 0	11 3	11 3	11 7
	5	Rasaghat ...	5 4	5 4	10 0	5 10	5 10	10 8	4 0	4 0	5 5	4 0	4 0	6 0	10 5	10 5	10 5
		MURSHIDABAD.															
	6	Dechampur ...	5 0	5 0	12 5	5 4	5 4	12 0	3 8	3 12	6 0	4 0	4 4	8 0	11 0	11 0	11 0
	7	Kendi ...	5 5	5 5	15 0	5 12	5 0	15 3	4 4	4 0	6 0	4 0	4 8	8 8	11 0	11 8	11 4
	8	Jangipur ...	5 0	5 0	14 0	5 2	5 2	14 4	3 5	3 8	5 0	4 0	3 4	9 0	10 0	10 0	10 0
BARDWAN.		JUMSONA.															
	9	Sadar ...	5 5	5 4	11 0	5 0	5 0	16 0	3 8	3 4	6 8	3 8	4 0	7 0	11 0	11 0	9 4
	10	Baangaon ...	5 5	5 2	12 5	5 2	7 0	14 15	2 11	2 11	4 0	3 0	4 0	6 0	11 4	11 4	9 2
		KHULNA.															
	11	Sadar ...	5 5	5 14	12 0	5 10	5 0	14 0	3 4	3 5	6 8	3 4	3 4	8 0	11 4	11 0	9 0
	12	Bagerhat ...	5 3	6 8	12 0	5 0	7 0	14 8	5 0	5 0	8 0	4 14	4 14	5 8	10 8	10 8	9 0
		BORDWAN.															
	13	Sadar ...	5 0	5 0	12 0	5 4	5 4	14 0	3 8	3 4	6 8	3 1	(a)	7 8	12 0	12 0	9 0
	14	Kalna ...	5 5	5 4	12 0	5 13	5 8	12 4	3 8	3 5	7 4	3 8	3 5	...	11 0	12 12	13 14
		BIRBHUM.															
	15	Sari ...	5 0	5 0	14 0	5 4	5 4	15 0	5 4	4 0	6 8	3 8	3 4	7 8	10 0	9 4	11 0
	16	Rampur Hat ...	4 12	4 12	14 0	5 0	5 0	16 0	3 8	4 8	5 0	3 4	3 5	9 0	11 0	11 0	12 0
RAJSHAH.		BANKURA.															
	17	Sadar ...	5 0	5 0	...	5 4	5 4	...	2 12	2 12	...	4 0	4 0	...	11 0	11 0	...
	18	Vishnupur ...	5 5	5 5	13 0	5 10	5 10	13 5	4 0	4 0	6 0	3 12	3 8	7 0	10 0	10 5	9 0
		MIDNAPORE.															
	19	Sadar ...	5 0	5 3	14 1	5 8	5 14	14 12	3 10	3 4	7 0	3 4	3 4	{ 5 5 7 0 }	10 8	10 8	9 0
	20	Contai ...	5 5	6 0	13 2	6 0	6 8	15 0	3 0	3 8	7 0	3 8	3 5	7 0	10 8	10 8	8 0
		HOOGHLY.															
	21	Sadar ...	5 0	5 0	10 0	5 8	5 8	11 0	3 4	3 8	5 0	3 8	3 8	7 0	10 8	10 8	9 0
	22	Arambagh ...	5 0	6 2	12 0	6 2	6 4	12 5	3 5	3 5	5 11	3 5	3 8	5 4	10 10	10 10	9 0
		HOWRAH.															
	23	Sadar ...	5 4	5 0	10 2	6 0	5 12	11 0	3 12	3 12	7 0	3 12	3 12	8 0	10 0	10 0	9 0
	24	Umbaria ...	5 0	5 0	10 0	5 0	5 0	10 5	4 0	4 0	6 8	3 8	3 8	7 4	11 0	11 0	9 4
RAJSHAH.		RAJSHAH.															
	25	Rampur-Boalia ...	4 14	5 4	10 14	5 0	5 4	11 7	4 0	4 0	5 12	3 8	3 8	9 12	10 0	10 0	9 12
	26	Nator ...	4 8	5 12	11 4	5 4	5 8	15 0	6 0	6 0	6 0	7 0	7 0	7 14	8 0	8 0	8 0
	27	Dinajpur-Railway Bazar Hat.	4 12	4 12	11 8	5 8	5 0	12 0	4 0	4 12	6 8	3 10	3 10	8 2	10 8	10 8	8 0
	28	Jalpaiguri-Sadar ...	5 0	5 2	10 0	6 0	6 5	12 0	4 0	4 0	8 0	4 0	4 0	8 0	8 0	8 0	8 0

• Karkatch.

(a) Not available.



**Price-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of June 1919—conold.**

Division.	Districts and Manb.	QUANTITY PER RUPEE IN SENES OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURK. UADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
BANGAL.	DANJESING.	S. CH.	P. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
	39 Bader ...	4 8	4 0	3 0	3 3	3 3	10 0	3 0	3 0	7 0	3 12	3 12	3 3	3 0	3 0	7 0
	40 Bilguri ...	4 0	4 0	3 0	3 3	3 3	11 0	3 0	3 0	8 0	3 0	3 0	3 0	3 0	3 0	8 0
	HANUPUR.															
	31 Bader ...	3 9	3 0	11 0	3 3	3 4	11 0	4 0	4 0	6 0	...	3 7	7 0	0 0	3 0	3 0
	32 Niphamari ...	3 11	3 0	11 0	...	...	12 0	3 4	3 0	3 0	3 4	3 0	3 0	3 0	3 0	3 0
	33 Bogra-Bader ...	3 7	3 7	3 4	3 0	3 0	12 2	4 0	6 2	7 0	3 0	3 0	3 12	3 12	3 12	3 0
	PADMA.															
	34 Bader ...	3 0	3 0	11 3	3 0	3 4	12 0	4 0	5 0	6 0	4 0	3 0	6 0	3 12	3 0	3 0
	35 (Brajganj) ...	3 0	3 0	10 4	3 3	3 12	11 0	3 0	5 0	7 2	3 0	3 0	7 0	3 0	3 0	3 0
DACC.	MALDA.															
	36 Bader ...	4 12	3 0	13 0	3 0	3 4	14 0	4 0	4 0	6 0	3 0	3 0	3 0	10 2	10 3	3 0
	37 Bala-Newahga (f...	4 12	3 0	13 0	3 0	3 12	14 0	4 0	4 12	7 0	4 0	4 0	3 3	11 0	71 0	3 12
	DACCA.															
	38 Bader ...	3 4	3 4	10 0	3 4	3 14	12 0	4 0	4 0	5 4	3 0	3 0	3 0	11 0	11 0	3 0
	39 Manbir Hat ...	3 4	3 3	12 0	3 4	3 3	12 0	...	...	...	...	4 0	...	3 0	3 0	3 0
	MYMENSINGH.															
	40 Natrabadi ...	3 0	3 12	11 0	3 3	3 0	11 0	4 0	4 0	6 0	4 0	4 0	3 0	3 0	3 0	3 0
	41 Motchoua ...	3 0	3 3	11 0	3 12	3 12	12 4	5 4	5 3	3 0	3 0	4 0	7 0	10 0	10 0	3 0
	PARIDPUR.															
CHITTAGONG.	42 Bader ...	3 0	3 3	13 0	3 0	3 0	13 4	5 12	5 12	5 3	4 0	4 0	6 0	3 0	3 0	3 0
	43 Rajbari ...	3 0	3 3	12 0	4 0	3 12	13 0	5 0	5 0	6 0	4 0	4 0	6 0	3 0	3 0	3 0
	BAHANGANG.															
	44 Barisal ...	3 4	3 0	11 4	3 0	3 0	12 0	5 10	5 12	7 0	3 14	3 14	3 12	10 10	10 10	3 0
	45 Pirajpur ...	3 0	3 0	11 4	...	...	11 4	...	...	7 0	4 0	4 0	5 0	3 0	3 0	3 0
	TIPPERA.															
	46 Chaulia ...	3 0	3 0	12 4	3 3	3 3	12 0	5 0	5 0	5 5	3 0	3 0	6 0	10 0	10 0	3 3
	47 Chandpur ...	4 10	3 2	10 3	3 0	3 14	12 3	5 0	5 4	5 12	4 2	4 2	7 14	10 0	10 0	3 1
	NOAKHALI.															
	48 Kaitora Hat ...	4 11	3 3	11 0	4 14	3 12	12 4	4 4	4 4	3 0	4 0	4 0	6 4	3 0	3 0	3 0
CHITTAGONG.	49 Feni Hat ...	4 14	3 15	13 0	3 3	3 3	14 0	6 0	6 0	3 0	...	...	...	10 11	9 2	3 2
	CHITTAGONG.															
	50 Bader ...	3 0	3 0	10 3	3 0	3 0	11 3	4 4	4 4	5 3	4 0	4 0	7 0	12 3	12 0	3 3
CHITTAGONG.	51 Cox's Bazar ...	3 0	3 0	11 0	...	...	11 0	4 0	4 0	4 0	3 4	3 4	4 0	3 0	3 0	3 0
	52 Chittagong Hill Tracts—Bangamati.	3 0	3 0	3 0	3 3	3 3	10 0	4 0	4 0	4 0	3 3	3 3	4 0	3 0	3 0	3 0

\* Karkatch.

(a) Not in stock.

DACCA,  
The 26th June 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.











Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 26th June 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1916.	
Ganges	22nd June 1919	6 A.M. ...	9.37'	101.83'	111.20'	0.70'	...	109.30'	110.60'	
	22nd "	6 " ...	11.70'	56.319'	68.019'	0.85'	...	67.91'	68.56'	
	22nd "	8.24 " ...	19.40'	...	...	0.60'	...	18.20'	17.40'	
Brahmaputra	22nd "	8 " ...	23.00'	148.76'	171.76'	1.20'	...	171.66'	173.86'	
	22nd "	12.24 P.M.	35.42'	..	...	0.92'	...	...	...	
	22nd "	8 A.M. ...	22.10'	...	...	...	0.80'	...	...	
Meghna	22nd "	6.24 " ...	10.25'	1.61'	11.86'	...	0.12'	...	...	
	22nd "	...	...	1.61'	...	...	...	...	...	
	22nd "	7 A.M. ...	16.30'	...	...	0.90'	...	...	...	
Dhaleswari	22nd "	7 " ...	...	-8.62'	...	...	...	...	...	
Bhagirathi	22nd "	6 " ...	9.68'	1.509'	11.189'	4.18'	...	7.27'	9.20'	
Damodar	22nd "	6 " ...	...	92.58'	...	...	...	...	...	
Lakhya	22nd "	...	16.92'	-5.59'	10.33'	...	0.17'	...	...	
Madaripur Bil Route	22nd "	6 A.M. ...	...	-0.599'	...	...	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 26th June 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	23rd June 1919	6 A.M. ...	10.17'	101.83'	112.00'	0.80'	109.90'	110.80'	
	Rajmahal ...	23rd "	6 "	12.40'	56.319'	68.719'	0.70'	68.51'	68.71'	
	Gosulundo ...	23rd "	8.24 "	20.10'	...	...	0.70'	18.40'	17.70'	
Brahmaputra	Gauhati ...	23rd "	8 "	24.90'	148.76'	173.66'	1.90'	171.26'	174.66'	
	Serajganj ...	23rd "	12.24 P.M.	35.83'	...	...	0.41'	...	...	
	Dibrugarh ...	23rd "	8 A.M. ...	23.30'	...	...	1.20'	...	...	
Meghna	Bhairab Bazar ...	23rd "	6.24 "	10.25'	1.61'	11.86'	Steady		...	
	Chandpur ...	23rd "	...	...	1.61	...	...	...	...	
	Fenchuganj ...	23rd "	7 A.M. ...	17.05'	...	...	0.75'	...	...	
Dhaleswari	Sabhar ...	23rd "	6 "	...	-8.62'	...	...	...	...	
Bhagirathi	Swarupganj ...	23rd "	7 "	11.35'	1.509'	12.859'	1.67'	7.71'	9.42'	
Damodar	Edilpur ...	23rd "	6 "	...	92.58'	...	...	...	...	
Lakhya	Narayanganj ...	23rd "	...	17.14'	-5.59'	11.55'	0.25'	...	...	
Madaripur Bil Route	Takerhat ...	23rd "	6 A.M. ...	...	-0.599'	...	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 26th June 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	24th June 1919	6 A.M.	11.17'	101.83'	113.00'	1.00'	111.40'	111.20'	
	... { Rajmahal ...	24th "	6 "	13.00'	56.319'	69.319'	0.60'	69.26'	68.91'	
	... { Goalundo ...	24th "	8-24 "	20.07'	...	...	0.60'	18.50'	18.20'	
Brahmaputra	Gauhati ...	24th "	8 "	26.00'	148.76'	174.76'	1.10'	171.16'	175.46'	
	... { Serajganj ...	24th "	12-24 P.M.	36.42'	...	...	0.59'	...	...	
	... { Dibrugarh ...	24th "	8 A.M.	23.80'	...	...	0.50'	...	...	
Meghna	Bhairab Bazar ...	24th "	6-24 "	10.25'	1.61'	11.86'	Steady	...	...	
	... { Chandpur ...	24th "	...	...	1.61'	...	...	...	...	
	... { Fenchuganj ...	24th "	7 A.M.	17.95'	...	...	0.90'	...	...	
Dhaleswari	Sabhar ...	24th "	7 "	...	- 8.62'	...	...	...	...	
Bhagirathi	Swarupganj ...	24th "	6 "	11.13'	1.509'	12.639'	...	9.11'	10.32'	
Dainodar	Edilpur ...	24th "	6 "	...	92.58'	...	...	...	...	
Lakhya	Narayanganj ...	24th "	...	17.50'	- 5.59'	11.91'	0.35'	...	...	
Madaripur Pil Route	Takerhat ...	24th "	6 A.M.	...	- 0.599'	...	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 26th June 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to F. W. D. datum.	Height above F. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE F. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	25th June 1919	6 A.M.	11.77'	101.83'	113.60'	0.60'	...	113.30'	111.70'	
	25th "	6 "	13.75'	56.319	70.069'	0.75'	...	70.16'	69.26'	
	25th "	8-24 "	21.20'	...	...	0.50'	...	18.60'	18.90'	
Brahmaputra	25th "	8 "	27.00'	148.76'	175.76'	1.00'	...	171.46'	175.76'	
	25th "	12-24 P.M.	37.00'	...	...	0.58'	...	...	...	
	25th "	8 "	...	...	...	...	...	...	...	
Meghna	25th "	6-24 "	10.42'	1.61	12.03'	0.17'	...	...	...	
	25th "	...	...	1.61	...	...	...	...	...	
	25th "	7 A.M.	18.30'	...	...	0.35'	...	...	...	
Dhaleswari	25th "	7 "	...	-8.62'	...	...	...	...	...	
Bhagirathi	25th "	6 "	10.25'	1.500'	11.750'	...	0.88'	9.73'	12.12'	
Damodar	25th "	6 "	...	92.58'	...	...	...	...	...	
Lakhya	25th "	...	18.08'	-5.59'	12.49'	...	...	...	...	
Madaripur Bil Route	25th "	6 A.M.	...	-0.599'	...	0.56'	...	...	...	







**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 28th June 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	7 0 0	7 8 0	0 3 3	0 3 6
" medium	8 0 0	9 8 0	0 3 6	0 3 9
Patnai, coarse	7 4 0	7 14 0	0 3 3	0 3 6
" medium	8 0 0	8 12 0	0 3 6	0 3 9
Nugra, coarse	7 10 0	7 15 0	0 3 3	0 3 6
" medium	8 0 0	8 14 0	0 3 6	0 3 9
Dudhkalma	8 4 0	8 6 0	0 3 6	.....
Rangoon Boiled	.....	.....	.....	.....
Kajla	7 0 0	.....	0 3 0	.....
Wheat, Dudhia	8 4 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 8 0	.....	.....	.....
Gram, Patnai (whole)	7 0 0	7 4 0	0 2 6	0 3 0
" dal	8 8 0	9 0 0	0 3 9	0 4 0
Mung " (Hari)	12 4 0	13 0 0	0 8 0	.....
" " (Krishna)	11 14 0	12 4 0	0 6 6	0 7 0
Arhar	9 0 0	10 8 0	0 4 0	0 5 6
Masur " (split)	7 0 0	7 8 0	0 3 0	0 3 6
" " (Khanri)	9 2 0	9 12 0	0 3 9	0 4 0
Kalai	8 8 0	9 12 0	0 3 6	0 5 0
Salt	3 4 0	3 5 0	0 1 6	.....
Sugar (brown Java)	17 12 0	.....	0 7 6	0 9 0
Gur, Bheli	.....	.....	0 4 0	.....
" Bhursut	8 4 0	8 12 0	0 4 6	.....
Milk	9 0 0	11 0 0	0 3 0	0 5 0
Mustard oil	33 8 0	37 4 0	0 14 0	1 0 0
Flour, country	9 8 0	10 6 0	0 4 6	0 5 0
Atta, No. 3	7 9 0	.....	.....	.....
" " 2½	7 14 0	.....	0 3 6	0 5 0
" " B	10 8 0	.....	.....	.....
Suji	9 11 0	10 12 0	0 4 6	0 5 6
Ghee (Bhadwa, Matki, etc.)	84 0 0	85 0 0	2 4 0	2 8 0
" (Patiram, Khurja, Ruto, Etwa, better kind; etc.)	81 0 0	82 0 0	2 3 0	.....
" (Lalli, Sagar, Etwa, etc.)	78 0 0	79 0 0	2 1 0	2 2 0
Maize	6 0 0	6 4 0	.....	.....
Potato	6 4 0	7 6 0	0 3 0	0 3 6
Patal	4 0 0	5 0 0	0 2 0	0 2 6
Brinjal	.....	.....	0 2 6	0 3 0
Onion	3 8 0	4 0 0	0 1 6	0 2 0
Fish, Rahu	20 0 0	25 0 0	0 14 0	0 15 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices of the following markets :—

*Wholesale.*—Chetla Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphanaganj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolla Bazar, Mallick Bazar and Jogh Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 28th June 1919.



**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 21st June 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
15th June	7 A.M.	14.5	14.5	18.7	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chhandpore ghât. Its reduced level is 22.41.
16th "	7 "	14.9	14.9	18.3	
17th "	7 "	15.5	15.5	17.9	
18th "	7 "	16.3	16.3	17.6	
19th "	7 "	17.3	17.3	17.4	
20th "	7 "	18.1	18.1	17.3	
21st "	7 "	18.8	18.8	17.3	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	"	5.2 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	"	25.78 on 28th August 1906.
Record (Average flood in Brahmaputra and Ganges)	...	Ditto	"	25.74 on 20th and 21st August 1903.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	"	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	"	25.66 on 31st July 1900.
Do.	...	Lowest	"	1.0 on 8th February 1914.
Do.	...	Ditto	"	2.42 on 13th March 1909.
Do.	...	Ditto	"	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	"	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	"	3.16 on 16th, 17th and 29th to 31st March 1901.

N.B.—The gauge-reading commenced from 3rd October 1903.

FARIDPUR,  
The 24th June 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.

**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 21st June 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to corrected datum.(a)	Height of surface above mean sea-level on the same date last year, according to corrected datum.(a)	Remarks.
1919.					
15th June	6 A.M.	Zero of gauge is at mean sea-level.	39.00	46.81	B. M. on Collage step 64.93.
16th "	8 "		40.10	46.81	
17th "	8 "		41.70	47.11	
18th "	8 "		42.85	47.61	
19th "	8 "		43.60	48.01	
20th "	8 "		44.00	48.21	
21st "	8 "		44.3	48.31	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No.  $\frac{2876}{18-33-17}$ , dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

		Old value.	According to corrected datum (a)
The previous year	...	Highest water-level	...
Ditto	...	Lowest	...
Record	...	Highest	...
Do.	...	Ditto	...
Do.	...	Ditto	...
Do.	...	Ditto	...
Do.	...	Lowest	...
Do.	...	Ditto	...
Do.	...	Ditto	...
Do.	...	Ditto	...

N.B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 21st June 1919.

D. N. BANERJI,  
for Executive Engineer, Rajshahi Divn.





# The Calcutta Gazette

WEDNESDAY, JULY 9, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 28th JUNE 1919.

During the week there was insufficient rainfall which retarded the agricultural operations. Sixty-six relief works were open during the week. The number of persons relieved on works was 7,305. The number of persons in receipt of gratuitous relief was 19,623, viz., 14,910 on cash doles, 3,427 on paddy-husking advances, 759 weavers and 527 better class poor. The total number of persons relieved was 26,928. The decrease in the number of persons on relief works was due to agricultural operations, while the increase in numbers on gratuitous relief was due to the opening of new relief centres. Four charitable societies relieved 1,894 persons by rice doles. Offences against property are increasing. The physical condition of workers and public health are good. Fodder and water are sufficient. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice is stationary and varies from 5 to 5½ seers per rupee.



## PRELIMINARY FORECAST OF THE JUTE CROP, 1919.

### Consolidated Statement for Bengal, Bihar and Orissa, and Assam.

*(This Forecast deals with estimates of area only. Estimates of output are dealt with in the Final Forecast.)*

**Area.**—The estimated area under jute in the three Provinces is 2,749,120 acres, an increase of 248,738 acres, or about 9·9 per cent. on last year's final figures.

The consolidated figures are as follows :—

NAME OF PROVINCE.	ESTIMATED ACREAGE UNDER JUTE.			DIFFERENCE BETWEEN THE PRELIMINARY FORECAST, 1919, AND FINAL FORECAST, 1918.	
	1918.		1919.		
	Preliminary.	Final.	Preliminary.	Increase.	Decrease.
Bengal (including Cooch Behar).	2,250,836*	2,249,026	2,431,063	182,037	.....
Bihar and Orissa ...	150,567	149,256*	202,757	53,501	.....
Assam ...	90,300	102,100*	115,300	13,200	.....
Total ...	2,491,703	2,500,382	2,749,120	248,738	.....

\* Revised.

The Departmental Preliminary Forecasts for each of the three Provinces are appended.

R. S. FINLOW,

*Officiating Director of Agriculture, Bengal.*

CALCUTTA,

*The 8th July 1919.*



## DEPARTMENT OF AGRICULTURE, BENGAL.

### Preliminary Forecast of the Jute Crop in Bengal, 1919.

(NOTE.—On an average of five years ending 1917-18, the area under jute to which this forecast relates represents 87·7 per cent. of the total area under jute in British India.)

THIS forecast deals with the estimates of area sown and the present condition of the crop, based on information received through the agency of the panchayats, as in previous years.

**Area Sown.**—The returns show a total area sown of 2,431,063 acres, being an increase of 182,037 acres, or about 8 per cent. over the final figures for 1918. The increase may be attributed largely to the high prices ruling last year and to anticipation, on the part of cultivators, that good prices will continue to be paid during the present season. Favourable weather conditions probably encouraged increased sowings in the Presidency and Burdwan Divisions.

**Character of the Season.**—In January rainfall was generally above normal in Western and Northern Bengal, but below normal in Eastern Bengal. In February, March and the beginning of April there was a prolonged drought, and the rainfall was considerably below normal, especially in Eastern Bengal. The drought was so severe that some early sown jute flowered in late April and early May. In the latter part of April there were good showers, on which a very large area was sown. The subsequent moderate rainfall in May, which was generally less than normal, and markedly so in Eastern Bengal, has been beneficial, on the whole, to the later sown crop, especially on low-lying lands. The tardy rise of the rivers has also helped the later sown low-land jute. There has so far been comparatively little damage by insect pests.

**Present State of the Crop.**—While not so good at present as that of 1917, at the time of the preliminary forecast, this year's crop promises better than that of 1918.

**Stocks in hand.**—The reports indicate that stocks of old jute are generally small.

R. S. FINLOW,

*Officiating Director of Agriculture, Bengal.*

CALCUTTA,

*The 8th July 1919.*



## APPENDIX I.

## Preliminary Jute Forecast of 1919.

DISTRICT.	ESTIMATED AREA UNDER JUTE—		Whether much, little or no jute remains in the district from the crop of 1918.	Date by which the sowing of the crop generally commenced this year, and whether the date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
	Last year. (Final figures.)	This year.			
1	2	3	4	5	6
	Acres.	Acres.			
24. argam ...	44,425	61,619	Very little ...	Middle of April; normal.	The increase in area is due to favourable weather conditions during the sowing season, as also to the increase of price obtained last year and the further rise expected this year. Weather has been favourable on the whole. Slight damage to the crop on low lands is reported from Baraset.
Nadia ...	60,973	67,223	Little in all subdivisions except in Sadar, where some jute remains.	Middle of April; normal.	Increase in area sown is due to high price of jute obtained last year. The weather has been favourable and the present condition of the crop is good.
Murshidabad ...	12,189	17,100	Some jute in Jangipur and Lalbagh subdivisions, but none elsewhere.	May to June; late ...	The increase in area is due to expectation of a good price owing to the termination of the war. Weather has been favourable and the present condition of the crop is good.
Jessore ...	21,024	79,026	A small quantity only	Second week of April; normal.	The increase in area is due to the prospects of a better market. Insects are reported to have caused some damage in Kails and Lohagara thanas.
Khulna ...	21,806	19,725	Little ...	April and May; normal.	The decrease in the area sown as compared with that of last year is due to the fact that there was no rain at the time of sowing. The recent rains have improved the condition of the crop, although the growth was somewhat retarded owing to insufficiency of rainfall at the outset.
Burdwan ...	6,008	6,261	Little ...	Second week of April; normal.	The increase in area is due to favourable weather condition at sowing time. Some damage was done to the crop in the Sadar subdivision by the Damodar flood in June. The present condition of the crop in Kalna subdivision is good.
Midnapore ...	10,665	10,396	Nil ...	May; normal ...	Slight damage was done to the crop by excessive rainfall in June. The present condition of the crop is fair.
Horigly ...	27,326	21,170	Little ...	Beginning of May; normal.	The increase in area as compared with that of last year is due to timely rainfall and expectation of a high price of jute. Slight damage by insects as well as by recent heavy rains has been reported from the Herampur subdivision.
Howrah ...	7,966	9,901	Little ...	First week of May; normal.	The increase in area sown this year is due to timely rainfall. Character of weather at sowing time and up till now has been favourable, but not so in the Uluberia subdivision. The condition of the crop is good in Sadar but fair in Uluberia.
Rajshahi ...	74,300	68,953	Little ...	March to middle of April; normal.	The decrease in area sown is due to drought at sowing time. The crop is poor on high lands, but on low lands its growth is good.
Dinapur ...	60,000	60,078	Little ...	End of April; late ...	Increase in area is due to the improvement in the jute market last year. Weather was not favourable at sowing time, but subsequent rainfall much improved the situation. Young early sown plants somewhat suffered from drought.
Jalpaiguri ...	46,890	49,306	Little ...	Middle of April; normal.	The weather has been favourable and the present condition of the crop is good.
Darjeeling ...	3,000	2,290	Practically nothing remains.	Middle of April; late	Better prices stimulated jute sowing this year. Weather was not favourable at sowing time, but subsequently it turned better. The present condition of the crop is good.
Rangpur ...	200,173	207,664	Little ...	March; normal ...	The increase in area is due to the prospects of a better market. The sowing time was marked by drought, but subsequently the weather turned more suitable and is at present favourable. The recent favourable weather has more or less counteracted the damage done by drought in the beginning of the season.
Bohri ...	66,428	62,945	Little ...	March; normal ...	Increase in area sown this year is due to rise in the price of jute. The weather was unfavourable at sowing time and for some time after, but gradually it became favourable and is so now. The present condition of the crop is fair.
Pabna ...	103,102	102,011	Some ...	A little late ...	The weather was not favourable at sowing time, but it turned favourable afterwards. Slight damage has been done by insects. The present condition of the crop is on the whole favourable.



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DISTRICT.	ESTIMATED AREA UNDER JUTE—		Whether much, little or no jute remains in the district from the crop of 1918.	Date by which the sowing of the crop generally recommenced this year, and whether the date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
	Last year. (Final figures.)	This year.			
1	2	3	4	5	6
	Acres.	Acres.			
Malda ... ..	29,000	26,400	Little ... ..	Middle of May; a little late.	The decrease in area is due to unfavourable weather at the time of sowing. The sowing on high lands was delayed owing to the late rainfall. The present condition of the crop is promising, although slight damage was caused by drought.
Dacca ... ..	292,482	293,517	Very little ... ..	End of March and beginning of April; late.	The decrease in area is due to continued drought at sowing time. Weather was not favourable at the beginning, but it improved subsequently. Slight damage has been caused by insect pests and drought. The present condition of the crop is fair.
Mymensingh ... ..	677,922	628,944	Little ... ..	Beginning of April; late.	The increase in area is due to the high prices obtained last year and to the expectation of a good market this year also. The weather was not favourable at sowing time, but it is generally favourable now. The present condition of the crop is hopeful, although drought somewhat retarded the growth of the crop at the beginning of the season.
Faridpur ... ..	214,100	258,400	Little ... ..	Middle of April; a little late.	The increase in area is due to high price of jute. Drought delayed sowings and affected the growth of the crop to some extent. The present condition is fair.
Bakarganj ... ..	60,227	66,622	Nil ... ..	April and early part of May; late.	The increase in area is due to good prices of jute obtained last year. The weather was somewhat unfavourable at the time of sowing and afterwards a long spell of dry weather in May retarded the growth to some extent, but no permanent injury was caused. The weather in June was very favourable. The present condition of the crop is good.
Chittagong ... ..	200	200	Nil ... ..	Last week of May; late.	Sowings were late for want of timely rainfall. The present condition of the crop is good.
Tippah ... ..	227,631	225,200	Same ... ..	April and May; somewhat late.	The slight increase in area is attributable to the high price of jute prevailing in the previous year. The weather was unfavourable at the time of sowing. Lack of rainfall early in the season also impeded the growth of the plants, but the rainfall in June improved the situation. The present condition of the crop is satisfactory.
Noakhali ... ..	37,600	41,400	Nil ... ..	March; normal ...	The increase in area is due to the high price obtained last year. The weather was not favourable at the time of sowing. The drought affected the growth of the crop at the beginning, but the present condition of the crop is on the whole good.
Total for Bengal ...	2,219,212	2,391,573			
Add—for Orissa Behar	29,814	29,190	Little ... ..	March; normal ...	The increase in area shown this year is due to high price of jute obtained last year, and also to the favourable weather at the sowing season. The effects of the weather have been on the whole favourable to the growth of the crop. The plants appear to be healthy.
GRAND TOTAL ...	2,249,026	2,421,063			



APPENDIX II.

Statement of Rainfall from February to June each year, from 1916 to 1919.

DISTRICT.	RAINFALL IN FEBRUARY.					RAINFALL IN MARCH.					RAINFALL IN APRIL.					RAINFALL IN MAY.					RAINFALL IN JUNE.				
	1916.	1917.	1918.	1919.	Normal.	1916.	1917.	1918.	1919.	Normal.	1916.	1917.	1918.	1919.	Normal.	1916.	1917.	1918.	1919.	Normal.	1916.	1917.	1918.	1919.	Normal.
24-Parganas	0.04	1.12	NH	1.17	1.71	0.01	0.06	0.27	0.61	1.56	3.33	1.37	4.44	3.51	1.94	3.00	6.30	11.69	4.29	5.52	17.79	13.45	16.68	12.64	11.23
Nadia	0.14	1.46	0	0.66	1.02	NH	0.73	1.33	0.32	1.34	6.49	0.42	2.82	3.19	2.86	3.04	6.84	8.08	3.78	4.56	5.13	13.22	11.22	5.07	7.63
Murshidabad	0.13	0.61	NH	0.76	0.90	NH	0.54	0.37	0.03	1.01	1.30	1.06	1.23	0.67	1.63	0.68	0.98	7.99	6.18	6.32	13.95	9.37	14.66	9.39	10.44
Jessore	NH	2.85	NH	0.85	1.71	0.29	0.41	4.26	0.35	1.94	4.34	1.81	5.19	6.01	2.49	3.64	5.98	9.36	4.72	7.66	13.38	17.79	12.20	8.95	11.84
Khulna	0.06	1.52	NH	2.17	1.22	0.22	0.90	2.86	0.34	2.12	6.48	4.82	7.63	3.89	3.45	2.59	6.81	12.19	5.92	7.74	12.80	12.79	22.71	12.08	12.93
Burdwan	0.06	0.99	NH	0.39	1.08	NH	1.20	1.45	0.15	1.26	3.75	0.33	2.82	1.84	1.92	0.39	7.14	5.16	5.29	5.94	16.54	1.46	18.82	9.35	10.79
Midnapore	0.01	2.14	NH	1.10	1.35	0.07	1.06	0.62	0.51	1.86	1.33	1.08	1.99	2.25	1.66	2.26	7.40	6.02	5.57	4.97	19.40	22.14	12.49	14.71	11.23
Hoochly	NH	1.32	0.01	0.89	1.22	0.01	1.16	1.41	0.64	1.40	2.57	0.70	4.49	2.21	2.11	0.29	5.64	8.90	3.84	5.67	11.25	8.68	12.63	14.71	9.93
Howrah	NH	2.19	NH	1.10	1.37	NH	1.06	0.63	0.33	1.66	1.78	3.07	5.86	3.33	1.67	4.43	7.70	10.16	3.45	5.39	16.20	16.36	16.66	18.25	11.14
Rajshahi	0.88	0.47	NH	0.21	0.71	0.77	0.43	0.45	0.14	0.96	2.70	2.30	3.10	1.05	1.66	0.96	5.82	11.42	2.03	4.08	18.99	10.28	16.22	9.21	11.06
Dinajpur	0.40	0.17	NH	0.02	0.75	NH	0.20	0.06	0.07	0.95	4.43	0.21	2.19	1.21	1.67	2.63	6.97	7.72	4.37	7.10	16.80	12.12	15.49	13.71	14.65
Jalpaiguri	0.84	1.15	0.46	0.20	0.93	0.64	0.37	1.42	0.07	1.53	6.70	1.46	6.32	2.90	5.73	19.00	12.28	17.86	9.71	16.37	33.29	37.19	22.51	22.35	27.08
Darjeeling	1.97	1.64	0.61	1.04	0.89	0.25	0.22	2.25	0.23	1.74	7.01	1.54	7.26	4.55	3.99	5.78	11.25	12.10	7.69	9.19	23.68	27.36	21.30	26.37	22.41
Rangpur	1.02	0.40	NH	0.01	0.68	0.12	0.42	0.07	0.26	1.35	6.64	0.95	5.72	1.19	2.12	4.45	7.87	11.33	6.42	11.11	21.76	19.24	28.32	20.12	16.94
Patna	0.46	0.37	NH	0.01	0.83	0.16	0.43	0.26	0.21	1.14	3.43	1.32	3.06	2.06	3.32	1.21	6.71	10.76	6.23	8.26	1.26	9.23	21.46	4.91	12.73
Bogra	2.22	1.17	NH	0.14	0.64	0.22	1.29	1.81	0.12	1.26	6.44	3.00	1.44	2.68	3.99	3.27	4.95	7.95	3.62	7.99	10.39	12.99	18.16	8.86	11.67
Maidi	0.22	0.17	NH	0.17	0.88	NH	0.43	0.12	0.10	0.60	1.76	0.70	3.22	0.94	1.19	0.66	3.51	6.59	2.39	4.63	12.67	20.40	16.90	15.08	10.54
Cooch Behar	0.63	1.40	0.01	0	0.71	0.07	0.19	0.19	0.22	1.72	10.37	1.25	8.44	5.26	4.88	22.42	6.62	12.45	7.68	16.22	11.35	18.44	21.21	21.29	27.00
Patna	1.76	2.32	NH	0.06	1.06	0.78	0.64	3.21	0.28	2.67	10.27	5.49	4.22	7.62	6.01	2.06	6.77	11.20	4.53	10.11	20.27	12.22	18.75	7.39	14.42
Mymensingh	0.76	1.01	NH	NH	0.82	0.27	0.23	0.87	0.42	1.78	5.19	3.02	3.85	2.26	4.54	2.16	7.52	11.26	7.24	11.88	19.19	13.70	28.76	13.97	17.90
Fardpur	0.37	2.72	0	0.22	1.17	0.35	0.55	2.25	0.08	2.17	6.72	4.46	3.82	7.79	5.07	2.69	6.31	11.25	3.22	10.21	12.38	14.24	17.42	6.75	18.03
Baharwal	NH	1.17	NH	1.09	1.16	NH	0.43	2.75	0.15	2.13	9.96	6.04	6.09	8.96	4.17	4.66	6.46	17.89	3.98	9.28	20.27	12.26	28.31	16.63	18.18
Chittagong	0.72	0.96	NH	0.21	0.69	NH	0.07	3.25	NH	2.24	9.20	11.05	5.91	5.15	4.39	5.03	5.82	19.49	2.24	10.27	22.42	20.22	29.47	26.62	22.62
Tippura	1.05	2.62	NH	0.14	1.05	0.78	0.42	4.22	0.27	2.92	11.93	9.22	4.62	5.79	6.24	2.88	6.63	11.21	4.42	11.22	11.21	12.72	22.29	11.89	16.05
Noakhali	0.22	1.25	NH	0.29	1.06	0.01	0.62	4.61	0	2.24	12.33	8.96	8.79	7.17	6.63	2.74	5.89	16.68	2.74	11.02	21.24	18.94	27.16	22.92	21.19

NOTE.—The figures given above are the averages for all the rainfall-registering stations in each district.  
• The figures in this column are taken from Weekly Weather and Org. Reports and are subject to revision.



## DEPARTMENT OF AGRICULTURE, BIHAR AND ORISSA.

### Preliminary forecast of the Jute Crop of Bihar and Orissa, 1919.

(NOTE.—On an average of the five years ending 1917-18, the area under jute to which the Bihar and Orissa forecast relates represents about 2·1 per cent. of the total area under jute in British India.)

THE present forecast deals only with the estimated area sown. It gives also a general survey of prospects, but makes no reference to the probable outturn either in percentage figures or in bales.

**2. Acreage.**—The estimated area sown during the current and four preceding years in round numbers is given below :—

Year.			Acreage.
1915	...	...	188,100
1916	...	...	224,000
1917	...	...	223,300
1918	...	...	149,300
1919	...	...	202,800

**3. Weather Conditions.**—In March and April the rainfall was below the normal in all jute districts except Cuttack and Balasore, where it was above the normal in the latter month. In May the rainfall was below the normal everywhere except Balasore, where it was above the normal. In June the rainfall was above the normal in Champaran, Bhagalpur, Purnea and Balasore and below the normal elsewhere; it was excessive in Balasore.

**4. District Returns.**—The total area under jute as reported by the District Officers is estimated in round numbers at 202,800 acres as compared with 150,600 acres shown in the corresponding forecast of last year and 149,300 acres, the revised final figure of last year. The increase is due to better prices obtained last year.

**5. Condition and Prospects.**—The condition of the crop is fair in Purnea and generally good elsewhere.

**6. General.**—The quantity of jute which remains from the crop of 1918 is small.

The statement below compares the area under jute in this Province this year with the preliminary and final figures of last year :—

NAME OF PROVINCE.	ESTIMATED ACREAGE UNDER JUTE.			DIFFERENCE BETWEEN THE PRELIMINARY FORECAST, 1919, AND FINAL FORECAST, 1918.	
	1918.		1919.		
	Preliminary.	Final.	Preliminary.	Increase.	Decrease.
1	2	3	4	5	6
Bihar and Orissa ...	150,600	149,300*	202,800	53,500	.....

\* Revised.

A. C. DOBBS,

Officiating Director of Agriculture,  
Bihar and Orissa.

RANCHI,

The 3rd July 1919.



## APPENDIX I.

## First Forecast of the Jute Crop of Bihar and Orissa, 1919.

DIVISION.	District.	Total area of the district.	Estimated total area under cultivation.	Estimated normal area under jute. (This figure has been arrived at by taking the average of 10 years immediately preceding this year to which this forecast relates.)	ESTIMATED AREA UNDER JUTE.		Whether much, little or no jute remains in the district from the crop of 1918.	Date by which the sowing of the crop generally commenced this year and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
					Last year (1918).	This year (1919).			
1	2	3	4	5	6	7	8	9	10
		Acre.	Acre.	Acre.	Acre.	Acre.			
Tribut	Champaran	2,399,840	1,436,900	1,900	2,400	2,400	.....	.....	The condition of the crop is good.
	Monsaharpur	1,647,194	1,637,000	1,700	1,800	2,300	Little	March	The weather and rainfall have been favourable. The condition of the crop is good. Sowings were normal and have been completed. Increase in area is due to expectation of better prices this year and the advances given by one of the factories in the Sadar subdivision for cultivation of this crop.
Bhagalpur	Bhagalpur	4,661,020	1,664,100	1,257(a)	856(b)	1,257	Little	May to June	The estimate of normal area has recently been revised. The figure for column 5 has been proportionately reduced in reference to the revised estimates of normal area. Practically the normal area has been put under jute crop this year.
	Purnea	2,116,143	1,694,400	219,000	132,000	176,000	Not much	March	The weather conditions have not been favourable owing to lack of rain in May. The condition of the crop is fair, so far. The date of sowing was a little late. Sowing has been completed. The crop is expected to be better than that of last year. The increase in area is due to the better prices obtained last year and rise in prices of all necessities of life for which people require more money. It is also due to small stock remaining in the hands of cultivators.
	Montal Parganas	2,466,100	1,696,200	2,000	1,300	1,300	.....	.....	The condition of the crop is good.
	Cuttack	2,210,207	1,222,600	16,400	18,700	18,600	Very little	Last week of April.	The rainfall has been favourable for the growth of the crop. The present condition of the crop is satisfactory. Sowings have been completed. The decrease in area sown this year as compared with that of last year is small and calls for no remarks. The date of sowing was normal.
Oriss	Balasore	1,232,621	102,200	2,800	2,300	2,300	Very little	Second week of May.	The weather and rainfall have been favourable for the growth of the crop sown early. The condition of the crop is good. The sowing was early and it has been completed. The crop of this year is expected to be better than that of last year. Jute sown late was to a certain extent damaged owing to excessive rain.
	Total	17,198,348	10,389,600	246,057 or in round numbers 246,100	149,256 or in round numbers 149,300	202,757 or in round numbers 202,800			

(a) Recently revised by the Collector.

(b) Revised with reference to revised normal area.



## APPENDIX II.

*Statement of Rainfall from February to June each year from 1916 to 1919.*

NAME OF DISTRICT.	RAINFALL IN FEBRUARY.				RAINFALL IN MARCH.				RAINFALL IN APRIL.				RAINFALL IN MAY.				RAINFALL IN JUNE.			
	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.*
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Champeran ...	0.71	1.11	NH	0.25	NH	0.66	0.06	0.03	1.06	0.09	2.19	0.45	2.12	4.81	7.49	1.34	9.66	12.16	10.86	12.16
Muzaffarpur ...	0.86	0.68	NH	0.13	NH	0.31	0.10	0.06	0.16	0.28	1.23	0.49	0.66	6.49	8.85	1.34	10.17	7.20	11.91	4.34
Bhagalpur ...	0.24	0.38	0.06	0.39	NH	0.63	0.63	0.03	1.30	0.29	1.84	0.44	0.81	4.96	6.67	2.79	12.26	9.72	10.94	9.36
Purnea ...	0.40	0.10	0.01	0.07	NH	0.20	0.04	0.00	2.81	0.39	2.90	1.07	3.04	6.17	7.77	3.96	13.91	12.31	16.69	12.71
Santal Parganas	0.34	0.67	0.01	0.72	NH	0.60	0.07	0.23	0.67	0.81	1.28	0.42	0.06	5.24	4.12	2.97	14.20	11.83	11.63	9.31
Onitack ...	0.26	5.72	NH	2.42	NH	0.83	0.99	0.29	0.48	0.52	1.42	1.76	1.93	6.03	5.12	2.80	15.64	11.72	11.43	10.24
Dalsore ...	0.12	2.66	0.00	2.83	0.07	1.28	0.23	0.87	0.88	1.99	1.89	2.40	2.81	10.27	4.04	6.88	11.42	14.17	8.78	25.11

\* Figures relate to headquarters only up to 29th June.



## DEPARTMENT OF LAND RECORDS AND AGRICULTURE, ASSAM.

### Preliminary Forecast of the Jute Crop in Assam, 1919.

(NOTE.—On the average of the five years ending 1917-18 the area under jute in Assam represents some 3·3 per cent. of the total area under jute in British India.)

**1. Character of the Season.**—There was very little rain in February and March. April and May were more favourable for sowing and the seasonable rains in June have facilitated growth to a considerable extent. In spite of the unfavourable weather at the beginning the condition of the crop is generally good and prospects are better than in last year in most districts.

**2. Area sown.**—The total area under jute as estimated by the Deputy Commissioners is 115,300 acres or about 12 per cent. more than the final figure of last year. The principal increase, 11,400 acres, is reported from Sylhet, where want of rain at the time for sowing the paddy crop is said to be responsible for the large increase, as the people turned to jute instead. The increase in the Brahmaputra Valley is due mainly to the extension of cultivation by settlers from Mymensingh.

**3. Stocks.**—According to the reports of the Deputy Commissioners there is little jute in stock from last year except in the Sadar subdivision of Goalpara, where a considerable quantity remained with the traders on account of the low prices offered.

J. McSWINEY,

*Director of Land Records and Agriculture, Assam.*

SHILLONG,

*The 2nd July 1919.*

*Statement showing the consolidated acreage figures of jute in Assam, 1919.*

NAME OF PROVINCE.	ESTIMATED ACREAGE UNDER JUTE.			DIFFERENCE BETWEEN THE PRELIMINARY FORECAST OF 1919 AND THE FINAL FIGURE OF 1918.	
	1918.		1919.		
	Preliminary.	Final.	Preliminary.	Increase.	Decrease.
	1	2	3	4	5
	Acrea.	Acrea.	Acrea.	Acrea.	Acrea.
Assam ...	90,300	102,100	115,300	13,200	.....

\* Revised.



## APPENDIX I.

*Preliminary Forecast of the Jute Crop of Assam for 1919.*

DISTRICT.	Normal area under jute.	AREA UNDER JUTE.		DIFFERENCE BETWEEN THE FIGURE NOW ESTIMATED FOR 1919 AND THE FINAL OF 1918.		Whether much, little or no jute remains in the district from the crop of 1918.	Date by which the sowing of the crop generally commenced this year and whether that date was early, normal or late.	REMARKS BY DEPUTY COMMISSIONERS.
		Final of 1918.	Now estimated for 1919.	Increase.	Decrease.			
1	2	3	4	5	6	7	8	9
	Acres.	Acres.	Acres.	Acres.	Acres.			
Ochiar ...	200	100	200	100	.....	No ...	Early April; normal.	The weather was favourable at the time of sowing and up till now; hence the increase in area, and the crop is expected to be better than last year.
Sylhet ...	16,000	13,600	26,000	11,400	.....	Very little ...	Early April; late	The want of rain at the time of sowing paddy has compelled people to take to jute cultivation. The weather up till now has been favourable for the growth of the crop, although it suffered a little from drought at the beginning.
Goalpara ...	42,100	50,900	52,900	2,000	.....	Much remained in the hands of traders on account of low price.	March-April; late	The increase in area is due to extension of cultivation. In the beginning the weather was unfavourable for want of rain, but improved subsequently. The present condition of the weather is good and the crop promises a good outturn and better than last year. Insects caused some damage to the crop in Goalpara subdivision at sowing time.
Kamrup ...	8,100	12,100*	12,900	.....	800	Little ...	1st April; normal	The difference in area is slight. The weather has been favourable to the crop and the prospects are likely to be better than last year. Little damage has been done to the crop by insects.
Darrang ...	7,800	8,800	9,100	300	.....	Little ...	Middle of April; normal.	The increase in area is due to favourable weather and influx of Mymensingh settlers and also to high price of jute. The character of weather up till now is good and the condition of the crop is good and better than last year.
Nowgong ...	6,700	10,900*	11,700	800	.....	Very little ...	Early April; normal.	The increase in area is due mainly to extension of cultivation by foreign settlers. The weather at the time of sowing was unfavourable, but improved subsequently. At present it may be called favourable, and the outturn is expected to be better than last year.
Sibsagar ...	200	400	400	.....	.....	Little ...	First week of April; normal.	The weather was not favourable at the time of sowing, but is favourable now, and the outturn is expected to be the same as last year.
Lakhimpur ...	200	200*	100	.....	100	Little ...	1st April; normal	The decrease in area is reported to be due to unhealthiness amongst the cultivators. The weather has been favourable and the prospects of the crop are fair.
Unto Hills ...	4,100	4,600	3,000	.....	1,600	Little ...	Middle of April; late.	The decrease of area sown this year is due to want of timely rainfall and to low price of jute since the beginning of the war. The weather was not favourable at sowing time, but it is better now. Some damage was done to the crop by drought. The present condition of the crop is worse than in last year.
Total ...	84,100	102,100*	115,300	15,100	1,900			

\* Revised on the basis of crop abstract.



## APPENDIX II.

Statement of rainfall from February to June each year from 1916 to 1919.

DISTRICT.	RAINFALL IN FEBRUARY.				RAINFALL IN MARCH.				RAINFALL IN APRIL.				RAINFALL IN MAY.				RAINFALL IN JUNE.				
	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.*	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
Onchar ...	51	6'00	66	24	9'25	66	12'13	98	12'41	16'78	12'62	7'46	11'32	6'65	15'72	15'16	11'77	22'68	24'33	16'82	
Hylhet ...	48	6'31	36	15	7'12	74	10'60	1'12	14'27	10'80	10'41	8'63	11'85	9'56	17'77	16'67	13'00	25'49	27'36	14'39	
Goolpara ...	69	1'73	04	01	1'82	1'01	72	58	8'51	1'93	7'01	6'27	17'69	6'11	10'38	14'08	22'38	20'91	26'68	25'65	
Kamrup ...	57	1'80	29	11	2'44	1'11	2'80	82	7'89	8'73	4'13	6'13	11'04	6'20	7'49	8'88	9'66	19'60	18'85	19'07	
Darrang ...	1'27	2'54	62	22	2'77	2'81	4'04	53	7'29	3'43	2'09	3'60	11'78	5'34	11'31	11'02	13'22	19'66	22'97	5'40	
Newgong ...	1'16	2'80	41	20	1'66	1'06	3'52	82	4'79	2'26	2'70	5'11	4'45	2'94	6'36	4'82	11'73	17'42	14'21	9'00	
Sibsagar ...	2'90	4'24	1'64	27	6'03	2'13	6'60	1'41	8'53	8'01	5'37	7'27	7'07	6'86	8'61	6'90	11'41	18'70	16'39	17'66	
Lakhimpur ...	2'23	4'03	1'69	1'82	2'69	2'60	8'35	58	9'41	10'38	5'01	6'69	18'04	12'82	11'09	18'76	18'79	26'62	24'68	25'62	
Garo Hills ...	26	43	02	Nil	25	1'06	09	22	9'89	1'26	6'70	5'16	6'07	12'88	12'09	14'01	22'12	18'15	29'08	27'06	

\* Figures relate to headquarters only.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 3rd July 1919.

**Summary.**—The rainfall throughout the Province was generally light to moderate. More rain is needed in some districts for the growth of standing crops and for the transplantation of winter paddy seedlings. Weeding of jute and *aus* paddy is still proceeding in some western districts. Prospects of standing crops are generally hopeful. The average price of common rice for the Province has fallen by about 1·5 per cent. as compared with that of the previous week. Scarcity is reported from the Serajganj subdivision in Pabna and from the Bohmong and Chakma circles of the Chittagong Hill Tracts. The average number of persons engaged daily on test works in the Brahmanbaria subdivision of Tippera was 2,536.

Serial No.	District and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	1·05	5 $\frac{1}{2}$ <sup>p</sup>	5 $\frac{1}{2}$ <sup>p</sup>	Transplanting of <i>aman</i> paddy continues. Fodder and water are sufficient.
	Diamond Harbour.	2·72	5 $\frac{1}{2}$	5	
	Barrackpore	2·44	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Barasat ...	1·39	5 $\frac{1}{2}$ <sup>p</sup>	5 $\frac{1}{2}$	
	Basirhat ...	0·86	6 $\frac{1}{2}$	6 $\frac{1}{2}$	
2	NADIA ...	1·20	5 $\frac{1}{2}$ <sup>p</sup>	5 $\frac{1}{2}$ <sup>p</sup>	More rain is wanted. Weeding of jute and <i>aus</i> paddy continues. Fodder supply is sufficient. Cattle-disease is reported from thanas Chakdah, Chapra and Kaliganj.
	Kushtia ...	0·86	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Meherpur ...	0·77	6 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Chuadanga ...	2·12	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Ranaghat ...	1·82	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
3	MURSHIDABAD	1·64	5 $\frac{1}{2}$	5	Prospects of standing crops are fair. Weeding of <i>aus</i> paddy and jute continues. More rain is immediately wanted for transplanting of winter paddy. Cattle-disease is reported from Mirzapur in Jangipur and Burwan in Kandi subdivision. Fodder is sufficient. No large import or export.
	Lalbagh ...	1·94	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Jangipur ...	0·04	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Kandi ...	1·83	5 $\frac{1}{2}$	(n)	
4	JESSORE ...	1·03	6	6	Weeding of jute and <i>aus</i> paddy is nearly finished. More rain is wanted.
	Jhenidah ...	3·50	6 $\frac{1}{2}$	6 $\frac{1}{2}$	
	Magura ...	1·41	7 $\frac{1}{2}$	6	
	Narail ...	1·07	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
	Bangaon ...	1·34	5 $\frac{1}{2}$	5	
5	KHULNA ...	0·76	5 $\frac{1}{2}$	5 $\frac{1}{2}$	Transplantation of <i>aman</i> paddy has commenced in some parts of the district. Fodder and water are sufficient.
	Satkhira ...	0·99	6	5 $\frac{1}{2}$	
	Bagerhat ...	2·38	5 $\frac{1}{2}$	5 $\frac{1}{2}$	

(n) Not reported.



Serial No.	Districts and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SUKKA, PER RUPEE		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	0.64	5½	5½	Weather hot. Transplanting of <i>amon</i> paddy is being retarded for want of sufficient rainfall. Jute and sugarcane and vegetables are growing well. Ploughing and weeding of jute continue. Prices continue high and labourers and non-agricultural classes feel the strain. Cattle-disease is reported from Raniganj.
	Asansol ...	0.53	5	5	
	Katwa ...	0.61	5½	5½	
	Kalua ...	Nil	5½	5½	
7	BIRBHUM ...	2.15	5½	5½	Transplantation has commenced. More rain is wanted. Fodder and water are sufficient.
	Rampurhat	0.69	5	5	
8	BANKURA ...	6.20	5	5	Sowing of paddy and ploughing of lands are briskly going on. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	2.43	5½	5½	
9	MIDNAPORE	1.45	5 to 5½	5 to 5½	Weather hot and cloudy. Transplantation of winter rice continues. Outturn of <i>rabi til</i> is poor.
	Ghatal ...	2.33	5½ to 5½	5½ to 5½	
	Tamluk ...	2.46	4½ to 6	4½ to 5½	
	Contai ...	1.45	6 to 6½	6 to 6½	
10	HOOGBLY ...	1.25	5	5	The effect of weather is favourable. Fodder is sufficient. Price of rice is steady. Cattle-disease is reported from Palba thana.
	Serampore ...	7.69	5½	5½	
	Arambagh ...	(n)	(n)	(n)	
11	HOWRAH ...	1.47	5½	5½	Weather cloudy. Condition of jute is hopeful. Lands are being prepared for paddy seedlings. Prospects of sugarcane crop are favourable.
	Ulubaria ...	1.29	5½	5½	
12	RAJSHAHI (RAMPUR- BOALIA).	0.91	4½	5	The prospects of standing crops are favourable. Fodder is sufficient.
	Naogon ...	1.26	5½	5½	
	Nator ...	0.72	5½	4½	

(n) Not reported.



Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ...	1·82	6	5½	Weather seasonable. More rain is wanted. Lands are being prepared for winter rice. Fodder is sufficient.
	Thakurgaon	0·24	6½	6	
	Balurghat ...	0·87	5½	5	
14	JALPAIGURI	7·97	5½	5½	Prospects of standing crops are fair. Transplantation of winter paddy continues. Fodder is sufficient. Cattle-disease is prevailing in Mainaguri and neighbouring taluks.
	Alipur ...	4·36	5	4½	
15	DARJEELING	6·14	4½	4½	Harvesting of potatoes and maize continues. Cardamoms and millet cultivation is progressing. Bhadoi crops are doing well. Standing crops have been benefited by the rainfall. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	5·48	4	4	
	Siliguri ...	15·88	4½	4	
	Kalimpong ...	4·20	5	5	
16	RANGPUR ...	1·02	5	5	Weather seasonable. Harvesting of <i>aus</i> paddy and jute is in progress. Transplantation of winter rice has commenced in places. More rain is wanted for agricultural operations. Fodder and water are sufficient. The export of rice is still going on.
	Nilphamari	1·11	6½	5½	
	Kurigram ...	0·82	6	6	
	Gaibandha ...	1·65	5½	6	
17	BOGBA ...	1·34	5½	5½	More rain is wanted. Preparation of lands for transplanted winter paddy is being retarded. The prospects of standing crops are fair. Fodder is insufficient in flooded area.
18	PABNA ...	1·38	(n)	5½	Prospects of jute and paddy are hopeful but there is apprehension of damage by flood in some parts of Sirajganj. Fodder is sufficient. The price of rice is coming down in the Sadar subdivision but is rising in Sirajganj. Scarcity is reported from Sirajganj.
	Sirajganj ...	1·09	(n)	5	
19	MALDA ...	0·84	5½	5½	Weather seasonable. Condition of <i>bhadoi</i> paddy and jute has been improved by the rain. Sowing of broadcast winter rice has commenced. Fodder and water are sufficient.
20	COOCH BEHAR	2·47	6½	6½	Weather cloudy and rainy. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for winter paddy and transplantation of seedlings are going on. Fodder is sufficient. Cattle-disease is reported from the interior.
21	DACCA ...	1·15	5½	5½ to 5½	Weather seasonable. The standing crops are thriving. The prospects of <i>aus</i> paddy are good and those of <i>jute</i> fair. Ploughing for transplanted paddy and preparation of seed-beds are in progress.
	Manikganj ...	0·53	5½	5	
	Narayanganj	1·04	5½	5½	
	Munshiganj*	1·74	5½	5½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
22	MYMENSINGH	2.93	5½	5½	Weather hot though rainy. Transplantation of <i>aman</i> and harvesting of jute continue. Export of rice from Jamalpur and Netrakona continues. Prospects of standing crops are good. Fodder and water are sufficient.
	Jamalpur ...	2.16	5½	5½	
	Tangail ...	1.09	5½	5	
	Netrakona ...	2.07	5½	5½	
	Kishorganj...	5.46	5½	5½	
23	FARIDPUR ...	0.91	6	6	The effects of weather are favourable to the crops. Jute crop has been slightly damaged by insect-pests in Goalundo subdivision. Stocks of rice are insufficient in some parts of Gopalganj subdivision. Prospects of crops are hopeful. Fodder is sufficient.
	Goalundo ...	1.91	5½	6½	
	Madaripur ...	1.18	5½	5½	
	Gopalganj*...	1.78	6½	5½	
24	BAKARGANJ (BARISAL).	1.52	5	5	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	1.92	5½	5½	
	Patuakhali...	2.51	5	5	
	Dakshin Shalabazpur (Bholá).	2.24	5	5½	
25	CHITTAGONG	1.09	6	6	Weather fair. Prospects of standing crops are fair. Transplantation of <i>bhadoi</i> paddy is going on. <i>Panga</i> salt is selling at 11 and 9 seers per rupee at Sadar and Cox's Bazar respectively. Fodder is sufficient. Cattle-disease is reported from Teknaf.
	Cox's Bazar	3.37	5	5½	
26	TIPPERA (COMILLA).	1.03	5	5	The prospects of standing crops are fair. More rain is required in the Brahmanbaria subdivision. 2,052 men, 294 women and 190 children worked daily on an average in test works in Brahmanbaria subdivision.
	Brahmanbaria.	0.55	5½	5½	
	Chandpur ...	2.64	5	5	
27	NOAKHALI ...	4.22	4½	4½	Weather seasonable. Prospects of standing crops are good. Fodder sufficient.
	Feni ...	1.44	{ 5½ 6½†	{ 5½ 6½ }	
28	CHITTAGONG HILL TRACTS.	1.03	5½	5	The rainfall has been insufficient for plough cultivation. General scarcity prevails among Jhumiahs in Bohmong and Chakma circles. Fodder is sufficient.

\* The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
† Rangoon rice.

R. S. FINLOW,  
Director of Agriculture, Bengal.

CAMP, CALCUTTA, the 7th July 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 5th July 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	8 4 0	8 6 0	0 3 3	0 3 6
" medium	8 8 0	8 12 0	0 3 6	0 3 9
Patnai, coarse	7 4 0	8 0 0	0 3 3	0 3 6
" medium	8 2 0	8 12 0	0 3 6	0 3 9
Nagra, coarse	7 4 0	8 1 0	0 3 3	0 3 6
" medium	8 3 0	8 13 0	0 3 6	0 3 9
Dudhkalma	8 4 0	8 6 0	0 3 6	.....
Rangoon Boiled	.....	.....	.....	.....
Kajla	7 0 0	.....	0 3 0	.....
Wheat, Dudhia	8 4 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 8 0	.....	.....	.....
Gram, Patnai (whole)	7 2 0	7 4 0	0 2 6	0 3 0
" dal	8 8 0	8 12 0	0 3 9	0 4 6
Mung " (Hari)	12 0 0	12 8 0	0 8 0	.....
" " (Krishna)	11 8 0	12 0 0	0 6 6	.....
Arhar "	9 4 0	11 4 0	0 4 0	0 5 0
Masur " (split)	6 14 0	7 12 0	0 3 3	0 3 6
" " (Khanri)	9 4 0	9 12 0	0 3 9	0 4 0
Kalai "	9 0 0	10 0 0	0 3 6	0 5 0
Salt	5 5 0	5 6 0	0 1 6	0 1 9
Sugar (brown Java)	19 0 0	.....	0 7 6	0 9 0
Gur, Bheli	.....	.....	0 4 0	.....
" Bhursut	10 8 0	10 12 0	0 4 6	0 5 0
Milk	9 0 0	11 0 0	0 3 0	0 5 0
Mustard oil	34 0 0	37 0 0	0 13 0	1 0 0
Flour, country	9 8 0	10 4 0	0 4 6	0 5 6
Atta, No. 3	7 8 0	.....	0 3 6	0 5 6
" " 2½	7 12 0			
" " B	10 8 0			
Suji	9 8 0	10 12 0	0 4 6	0 6 0
Ghee (Bhadwa, Matki, etc.)	84 0 0	85 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	81 0 0	82 0 0	2 4 0	.....
" (Lalli, Etwa, Sagar, etc.)	78 0 0	79 0 0	2 0 0	.....
Maize	6 0 0	6 4 0	.....	.....
Potato	5 4 0	7 8 0	0 2 6	0 3 6
Patal	3 0 0	4 0 0	0 1 6	0 2 6
Brinjal	.....	.....	0 2 0	.....
Onion	3 8 0	4 0 0	0 1 6	0 2 0
Fish, Rahu	20 0 0	25 0 0	0 14 0	0 15 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

*Wholesale.*—Chetla Hat, Ramkrishnapur Hat, Scaldah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphauganj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolla Bazar, Mallick Bazar and Jogh Babu's Bazar.

S. C. Roy,

for President, Advisory Food Committee.

CALCUTTA, the 5th July 1919.







## MENT, BENGAL.

*rivers Ganges, Bhagirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge-reading since 1876.*

Rajmahal. <sup>a</sup> Zero of gauge 56'319 ft.		Rampur-Boalia. Zero of gauge at mean sea-level is (d)		Goalundo. Zero of gauge is at mean sea-level.		Berhampore. Zero of gauge 32'499 (c)		Sarupganj.(b) Zero of gauge 1'500.		Ganhati. Zero of gauge 148'76 ft.	
From Benares 407.	From Mouhyc 120.	From Benares 471.	From Rajmahal 64.	From Benares 591.	From Rampur- Boalia 120.						
15th August 1913. 88'46.		26th August 1879. 69'35.		28th August 1906 and 14th September 1915. 20'75.7		14th August 1890. 61'70.		26th September 1900. 35'03.		24th August 1906. 181'11.	
2nd May 1910. 54'69.		23rd April 1886. 87'63.		26th March 1910. 2'25.		19th to 24th April 1917. 82'40.		28th March 1915. 2'15.		9th February 1888. 143'46.	
Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
13	14	15	16	17	18	19	20	21	22	23	24
1'65	57'969	33'60	33'60	10'30	10'30	1'71	34'209	3'96	5'469	7'10	155'86
1'60	57'919	33'55	33'55	10'60	10'60	1'71	34'209	3'82	5'329	6'40	155'16
1'60	57'919	33'55	33'55	10'80	10'80	1'71	34'209	3'95	5'459	6'90	155'66
1'60	57'919	33'55	33'55	10'80	10'80	1'71	34'209	3'71	5'219	5'40	154'16
1'55	57'869	33'50	33'50	10'60	10'60	1'71	34'209	3'54	5'049	5'40	154'16
1'50	57'819	33'50	33'50	10'40	10'40	1'71	34'209	3'19	4'699	5'20	153'96
1'50	57'819	33'50	33'50	10'10	10'10	1'71	34'209	2'92	4'429	5'60	154'36
1'55	57'869	33'50	33'50	9'60	9'60	1'71	34'209	2'80	4'309	5'90	154'66
1'65	57'969	33'55	33'55	9'30	9'30	1'71	34'209	2'82	4'329	6'10	154'86
1'60	57'919	33'55	33'55	9'20	9'20	1'71	34'209	2'85	4'359	5'50	154'26
1'65	57'969	33'70	33'70	9'20	9'20	1'71	34'209	3'16	4'669	5'20	153'96
1'70	58'019	33'70	33'70	9'30	9'30	1'71	34'209	3'15	4'659	5'10	153'86
1'70	58'019	33'70	33'70	9'50	9'50	1'71	34'209	3'22	4'729	5'10	153'86
1'70	58'019	33'65	33'65	9'50	9'50	1'71	34'209	3'42	4'929	5'20	153'96
1'95	58'269	33'70	33'70	9'60	9'60	1'76	34'259	3'74	5'249	5'50	154'26
2'00	58'319	33'80	33'80	9'60	9'60	1'76	34'259	4'13	5'639	5'80	154'56
2'10	58'419	33'95	33'95	9'30	9'30	1'76	34'259	4'31	5'819	6'30	155'06
2'10	58'419	34'00	34'00	9'00	9'00	1'71	34'209	3'99	5'499	6'40	155'26
2'10	58'419	34'10	34'10	8'90	8'90	1'71	34'209	3'86	5'369	6'50	155'26
2'15	58'469	34'15	34'15	9'00	9'00	1'71	34'209	3'81	5'319	6'60	155'36
2'25	58'569	34'20	34'20	9'10	9'10	1'71	34'209	3'81	5'319	6'80	155'56
2'35	58'669	34'20	34'20	9'20	9'20	1'66	34'159	3'63	5'139	7'10	155'86
2'50	58'819	34'25	34'25	9'40	9'40	1'66	34'159	3'56	5'069	7'40	155'16
2'55	58'869	34'25	34'25	9'50	9'50	1'66	34'159	3'57	5'079	7'90	156'66
2'60	58'919	34'25	34'25	9'50	9'50	1'66	34'159	3'55	5'059	8'10	156'86
2'70	59'019	34'50	34'50	9'60	9'60	1'66	34'159	3'77	5'279	8'40	157'16
2'90	59'219	34'60	34'60	9'70	9'70	1'66	34'159	3'99	5'499	8'90	157'66
3'00	59'319	34'70	34'70	10'10	10'10	1'66	34'159	4'44	5'949	9'50	158'26
3'10	59'419	34'90	34'90	10'60	10'60	1'66	34'159	4'82	6'329	10'10	158'86
3'10	59'419	35'00	35'00	11'20	11'20	1'66	34'159	5'18	6'689	10'60	159'36
3'15	59'469	35'00	35'00	11'50	11'50	1'66	34'159	4'88	6'389	13'70	162'46

was 56'46 ft. above M.S.L. up to 26th October 1915 and 60'00 ft. above M.S.L. from 27th October 1915, and was again the zero was 54'81 ft. above M.S.L. from 7th April 1919 the zero of gauge was 56'32 ft. above M.S.L. and from 16th should be deducted from the former or added to the latter (*vide* Bengal Government letter No. 1083T. -I, dated the 12th

dating back 15th July 1897. The zero was again at M.S.L. from 1st April 1918 to 13th April 1919. From 14th April 1919, it is 32'499 ft. above M.S.L. Rampur Boalia in place of the permanent gauge was taken away. The zero of gauge is at M.S.L. from 25th June 1918

G. J. ST. C. SEWLEY,

*Under-Secy. to the Govt. of Bengal.*



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 3rd July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	27th June 1919	6 A.M. ...	12.87'	101.83'	114.70'	...	0.50'	...	112.70'
	... { Rajmahal ...	27th "	" " " 6 "	13.30'	56.319'	71.619'	...	0.75'	...	70.56'
	... { Goalundo ...	27th "	" " " 8-24 "	22.70'	...	...	...	0.80'	...	19.80'
Brahmaputra	Gauhati ...	27th "	" " " 8 "	28.00'	148.76'	176.76'	...	0.40'	...	175.46'
	... { Seraiganj ...	27th "	" " " 12-24 P.M.	38.20'	...	...	...	0.40'	...	...
	... { Dibrugarh ...	27th "	" " " 8 A.M. ...	21.30'	...	...	1.00	...	...	...
Meghna	Bhairab Bazar ...	27th "	" " " 6-24 "	11.17'	1.61'	12.78'	...	0.58'	...	...
	... { Chandpur ...	27th "	" " " 5-24 P.M. ...	11.25'	1.61'	12.86'	...	0.50'	...	...
	... { Fenchuganj ...	27th "	" " " 7 A.M. ...	19.60'	...	...	...	0.60'	...	...
Dhaleswari	... Sabhar ...	27th "	" " " 7 "	23.90'	- 8.62'	15.28'	...	0.50'	...	...
Bhagirathi	... Swarupganj ...	27th "	" " " 6 "	8.58'	1.509'	10.089'	0.51'	...	8.63'	12.47'
Damodar	... Edilpur ...	27th "	" " " 6 "	5.58'	92.58'	98.16'	0.92'	...	...	...
Lakhya	... Narayanganj ...	27th "	" " " " "	19.00'	- 5.59'	13.41'	...	0.27'	...	...
Madaripur Bil Route	... Takerhat ...	27th "	" " " 6 A.M. ...	9.10'	- 0.599'	8.501'	...	0.30'	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 3rd July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN--		REMARKS.
						Rise.	Fall.	1917.	1918.	
Gauges	Monghyr ...	28th June 1919	13.37	101.83	115.20	0.50	...	115.10	112.90	
	... Rajmahal ...	28th "	15.00	56.319	72.219	0.60	...	74.51	71.01	
	... Goalundo ...	28th "	23.10	...	...	0.40	...	19.30	20.30	
Prahmaputra	... Gauhati ...	28th "	27.70	148.76	176.46	...	0.30	173.16	175.66	
	... Serajganj ...	28th "	38.60	...	...	0.40	...	...	...	
	... Dibrugarh ...	28th "	20.70	...	...	...	0.60	...	...	
Meghna	... Bhairab Bazar ...	28th "	11.50	1.61	13.11	0.33	...	...	...	
	... Chandpur ...	28th "	11.33	1.61	12.94	0.08	...	...	...	
	... Fenchuganj ...	28th "	20.00	...	...	0.40	...	...	...	
Dhaleswari	... Sahar ...	28th "	24.30	- 8.62	15.68	0.40	...	...	...	
	... Swarupganj ...	28th "	7.97	1.509	9.479	...	0.61	8.43	12.93	
Damodar	... Ellilpur ...	28th "	5.00	92.58	97.58	...	0.58	...	...	
Lakhya	... Narayanganj ...	28th "	19.08	- 5.59	13.49	0.08	...	...	...	
Madaripur Bil Route	... Takerhat ...	28th "	9.30	- 0.599	8.701	0.20	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 3rd July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	29th June 1919	6 A.M. ...	13.27'	101.83'	115.10'	...	0.10'	114.00'	113.00'	
	29th "	6 " ...	16.30'	56.319'	72.619'	0.40'	...	74.61'	71.41'	
	29th "	8.24 " ...	22.30'	...	...	...	0.80'	19.60'	20.70'	
Brahmaputra	29th "	8 " ...	27.40'	148.76'	176.16'	...	0.30'	173.36'	175.66'	
	29th "	12-24 P.M.	38.70'	..	...	0.10'	...	...	...	
	29th "	8 A.M. ...	20.05'	...	...	...	0.65'	...	...	
Meghna	29th "	6.24 " ...	11.75'	1.61'	13.36'	0.33'	...	...	...	
	29th "	5.39 " ...	11.00'	1.61'	12.61'	...	0.33'	...	...	
	29th "	7 " ...	20.40'	...	...	0.40'	...	...	...	
Dhaleswari	29th "	7 " ...	24.60'	- 8.62'	15.98'	0.30'	...	...	...	
Bhagirathi	29th "	6 " ...	6.92'	1.509'	8.429'	...	1.05'	9.53'	13.52'	
Damodar	29th "	6 " ...	5.50'	92.58'	98.08'	0.50'	...	...	...	
Lakhya	29th "	...	19.37'	- 5.59'	13.78'	0.29'	...	...	...	
Madaripur Bil Route	29th "	6 A.M. ...	9.40'	- 0.599'	8.801'	0.10'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 8rd July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	30th June 1919	6 A.M. ...	12.67'	101.83'	114.50'	...	0.60'	114.10'	112.80'
	... { Rajmahal ...	30th "	6 "	16.40'	56.319'	72.719'	0.10'	...	74.36'	71.71'
	... { Goalundo ...	30th "	8-24 "	19.60'	...	...	...	...	19.70'	20.80'
Brahmaputra	Gaubati ...	30th "	8 "	27.40'	148.76'	176.16'	Steady	...	173.16'	175.46'
	... { Serajganj ...	30th "	12-24 P.M.	38.90'	...	...	0.20'	...	...	...
	... { Dibrugarh ...	30th "	8 A.M. ...	19.40'	...	...	0.65'	...	...	...
Meghna	Bhairab Bazar ...	30th "	6-24 "	11.88'	1.61'	13.44'	0.08'	...	...	...
	... { Chandpur ...	30th "	6-54 "	10.75'	1.61'	12.36'	...	0.25'	...	...
	... { Fenchuganj ...	30th "	7 "	20.60'	...	...	0.20'	...	...	...
Dhaleswari	... Sabhar ...	30th "	7 "	24.90'	- 8.62'	16.28'	0.30'	...	...	...
Bhagirathi	... Swarupganj ...	30th "	6 "	6.36'	1.509'	7.869'	...	0.56'	10.46'	13.72'
Damodar	... Editpur ...	30th "	6 "	5.50'	92.58'	98.08'	Steady	...	...	...
Lakhya	... Narayanganj ...	30th "	...	19.58'	- 5.59'	13.99'	0.21'	...	...	...
Madaripur Bil Route	Takerhat ...	30th "	6 A.M. ...	9.20'	- 0.599'	8.601'	...	0.20'	...	...

Position of the gauge shifted.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 3rd July 1919.

Name of river and place where readings are taken	Date	Hour	Reading on gauge	Value of zero referred to P. W. D. datum	Height above P. W. D. datum	COMPARISON WITH PREVIOUS DAY'S DROUGHT		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS
						Rise	Fall	1917	1918	
Ganges	Monghyr ...	1st July 1919	6 A.M.	12.17	101.83	...	0.50	114.40	112.20	
	Rajmahal ...	1st "	6 "	16.00	56.319	...	0.40	73.91	71.46	
	Goalundo ...	1st "	8-24 "	19.90	...	0.30	...	19.80	20.70	
Brahmaputra	Gauhati ...	1st "	8 "	26.70	148.76	...	0.70	173.06	174.76	
	Seraiganj ...	1st "	12-24 P.M.	39.00	...	0.10	...	...	...	
	Dibrugarh ...	1st "	8 A.M.	19.35	...	...	0.05	...	...	
Meghna	Bhairab Bazar	1st "	6-24 "	12.33	1.61	0.50	...	...	...	
	Chaulpur ...	1st "	7-44 "	11.17	1.61	0.42	...	...	...	
	Fenchuganj ...	1st "	7 "	20.80	...	0.20	...	...	...	
Daleswari	Salhar ...	1st "	7 "	25.30	- 8.62	0.04	...	...	...	
Bhagirathi	Swarupganj ...	1st "	6 "	6.26	1.503	...	0.10	11.16	13.50	
Damodar	Edilpur ...	1st "	6 "	5.17	92.58	...	0.33	...	...	
Lakhya	Narayanganj	1st "	...	20.08	- 5.55	0.50	...	...	...	
Madaripur Pil Route	Takerhat ...	1st "	6 A.M.	9.50	- 0.599	0.30	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, 4

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE DATUM ON SAME DATE.
						Rise.	Fall.	
Ganges	2nd July 1919	6 A.M.	11.57'	101.83'	113.40'	...	0.60'	113.80'
	2nd "	6 "	15.35'	56.319'	71.669'	...	0.65'	71.66'
	2nd "	8.24 "	20.30'	...	...	0.40'	...	19.80'
Brahmaputra	2nd "	8 "	25.90'	148.76'	174.66'	...	0.80'	173.01'
	2nd "	12.24 P.M.	39.20'	...	...	0.20'	...	...
	2nd "	8 "	18.60'	...	...	...	0.75'	...
Meghna	2nd "	6.24 "	12.75'	1.61'	14.36'	0.42'	...	...
	2nd "	8.24 "	11.50'	1.61'	13.11'	0.33'	...	...
	2nd "	7 A.M.	20.80'	...	...	Steady		...
Dhaleswari	2nd "	7 "	25.60'	-8.62'	16.98'	0.30'	...	...
Bhagirathi	2nd "	6 "	6.83'	1.509'	8.339'	0.57'	...	11.83'
Damodar	2nd "	6 "	5.75'	92.58'	98.33'	0.58'	...	...
Lakhya	2nd "	...	19.92'	-5.59'	14.33'	0.16'	...	...
Madaripur Bil Route	2nd "	6 A.M.	10.00'	-0.599'	9.401'	0.50'	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 3rd July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	3rd July 1919	11.67	101.83	113.50	0.10	...	113.50	111.50	
	... { Rajmahal ...	3rd " "	15.00	56.319	71.319	...	0.35	73.36	70.61	
	... { Goalundo ...	3rd " "	20.10	...	...	...	0.20	19.80	20.50	
Brahmaputra	Gauhati ...	3rd " "	25.60	148.76	174.36	...	0.30	172.96	173.76	
	... { Seraiganj ...	3rd " "	39.20	...	...	Steady.	...	...	...	
	... { Dibrugarh ...	3rd " "	18.50	...	...	...	0.10	...	...	
Meghna	Bhairab Bazar ...	3rd " "	13.00	1.61	14.61	0.25	...	...	...	
	... { Chandpur ...	3rd " "	10.92	1.61	12.53	...	0.58	...	...	
	... { Fenchuganj ...	3rd " "	20.80	...	...	Steady.	...	...	...	
Dhaleswari	... Sabhar ...	3rd " "	26.00	- 8.62	17.38	0.40	...	...	...	
Bhagirathi	... Swarupganj ...	3rd " "	7.32	1.509	8.829	0.49	...	12.43	12.65	
Damodar	... Edilpur ...	3rd " "	5.75	92.58	98.33	Steady.	...	...	...	
Lakhya	... Narayanganj ...	3rd " "	19.50	- 5.59	13.91	0.42	...	...	...	
Madaripur Bil Route	... Takerhat ...	3rd " "	10.00	- 0.599	9.401	Steady.	...	...	...	



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 28th June 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 28TH JUNE 1919.			WEEK ENDING SATURDAY, THE 29TH JUNE 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	424	115,345	1,597	462	68,000	1,100
Jute ...	20	17,431°	135	42	23,749†	235
Firewood ...	46	17,900	253	137	50,975	900
Other articles ...	749	229,707	2,487	1,108	261,142	3,117
Total ...	1,239	380,383	4,472	1,749	398,866	5,352
Empty boats and rafts ...	437	...	1,902	494	...	1,056
GRAND TOTAL ...	1,676	380,383	6,374	2,243	398,866	6,408

° Weight by canal measurement ... Mds. 18,375  
† Ditto ditto ... Mds. 25,560

CALCUTTA,  
The 4th July 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 5th July 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 5TH JULY 1919.			WEEK ENDING SATURDAY, THE 6TH JULY 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	319	57,610	926	530	68,450	1,224
Jute ...	38	33,263°	278	49	31,940†	294
Firewood ...	49	30,875	450	156	65,000	1,193
Other articles ...	751	242,769	2,513	866	203,540	2,615
Total ...	1,137	364,517	4,167	1,601	368,930	5,326
Empty boats and rafts ...	434	...	1,197	512	...	1,132
GRAND TOTAL ..	1,571	364,517	5,364	2,113	368,930	6,458

° Weight by canal measurement ... Mds. 26,463  
† Ditto ditto ... Mds. 25,800

CALCUTTA,  
The 8th July 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



			59.5	9.0	58.5	58.8	Flood tide at 7-40 and Ebb tide at 12-20.
							Flood tide at 8-25 and Ebb tide at 14-20.
							Flood tide at 9-30 and Ebb tide at 15-5.
21st	59.15	15-25	59.6	9.55	58.55	59.2	Flood tide at 10-12 and Ebb tide at 16-12.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	...	67.86	
10th August	1910	...	...	...	...	69.86	
1st	1911	...	...	...	...	68.46	
13th "	1912	...	...	...	...	67.16	
31st "	1915	...	...	...	...	69.7	
18th "	1916	...	...	...	...	68.1	
12th "	1917	...	...	...	...	67.1	
31st	1918	...	...	...	...	69.12	Taken at low tide.
28th February	1907	...	...	...	...	51.06	
18th "	1908	...	...	...	...	51.06	
12th March	1912	...	...	...	...	51.06	
6th "	1914	...	...	...	...	50.60	
22nd February	1915	...	...	...	...	50.80	
15th "	1916	...	...	...	...	50.60	
8th March	1917	...	...	...	...	51.0	
21st February	1918	...	...	...	...	51.40	

DACCA,  
The 24th June 1919.

J. N. CHATTERJEE,  
for Executive Engr., River Improvements, Dacca.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 28th June 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above the same level on same date last year.	Remarks.
1919.					
22nd June	7 A.M.	19.4	19.4	17.4	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
23rd "	7 "	20.1	20.1	17.7	
24th "	7 "	20.7	20.7	18.2	
25th "	7 "	21.2	21.2	18.9	
26th "	7 "	21.9	21.9	19.5	
27th "	7 "	22.7	22.7	19.8	
28th "	7 "	23.1	23.1	20.3	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	25.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 13th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	...	3.16 on 16th, 17th and 29th to 31st March 1901.

N.B.—The gauge-readings commenced from 2nd October 1901.

FARIDPUR.  
The 29th June 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 28th June 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to corrected datum.(a)	Height of surface above mean sea-level on the same date last year according to corrected datum.(a)	Remarks.
1919.					
22nd June	... 8 A.M.	Zero of gauge is at mean sea-level.	44.75	48.51	B. M. on College step corrected (a) 64.93.
23rd "	... 8 "		45.40	48.51	
24th "	... 8 "		46.00	48.56	
25th "	... 8 "		46.55	49.11	
26th "	... 8 "		47.20	49.36	
27th "	... 8 "		47.95	49.81	
28th "	... 8 "		48.60	50.36	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. 2876, dated 18-33-17, dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

			Old value.	According to corrected datum (a)
The previous year	...	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	...	Lowest "	41.70 on 21st April 1918	36.89
Record	...	Highest "	69.25 on 26th August 1879	64.44
Do.	...	Ditto "	69.08 on 9th September 1885	64.27
Do.	...	Ditto "	68.30 on 25th August 1906	63.47
Do.	...	Ditto "	68.21 on 26th August 1890	63.40
Do.	...	Lowest "	37.68 on 25th April 1884	32.82
Do.	...	Ditto "	38.18 on 14th—15th April 1888	33.32
Do.	...	Ditto "	39.02 on 21st—22nd April 1897	34.21
Do.	...	Ditto "	39.28 on 6th—7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA.  
The 28th June 1919.

D. N. BANERJI,  
for Executive Engineer, Rajshahi Divn.





# The Calcutta Gazette

WEDNESDAY, JULY 16, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 5th JULY 1919.

During the week the rainfall was general. Transplantation of *aus* and *aman* paddy is proceeding. Seventy-two relief-works were open during the week. The number of persons relieved on works was 6,492. The number of persons in receipt of gratuitous relief was 20,039, viz., 15,251 on cash doles in 114 Unions, 3,479 on paddy husking advances, 782 weavers and 527 better class poor. The total number of persons relieved was 26,531. The decrease in the number of persons on relief-works was due to heavy rains and active-agricultural operations, while the increase in numbers on gratuitous relief was due to the opening of new relief centres. The number of persons relieved on private works was 2,000. Also four Charitable Societies relieved 1,799 other persons by rice doles. Offences against property are increasing. The physical condition of workers and public health are good. Fodder and water are sufficient. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5 to 5½ seers per rupee. About 900 maunds of Burma rice were sent out for sale in the district.

M. C. McALPIN,  
Secy. to the Govt. of Bengal.



**RESOLUTION ON THE PROPOSED CURRICULUM OF  
SCHOOLS IN BENGAL.**

**GOVERNMENT OF BENGAL.**

**GENERAL DEPARTMENT.**

**Education Branch.**

CALCUTTA, THE 14TH JULY 1919.

RESOLUTION—No. 1123Edn.

**READ—**

Letter from the Director of Public Instruction, Bengal, No. 377, dated the 22nd May 1919.

The question of the simplification and unification of the different curricula for primary schools which are now in force in West and in East Bengal has for some time past been under the consideration of the Director of Public Instruction. The matter was considered by a Conference of educational officers and by a subsequent Conference of Inspectors of Schools, after which detailed syllabuses of study, covering the whole of the primary school course, were drawn up. The Director of Public Instruction has now submitted these syllabuses to Government with a recommendation for the adoption of a simple and uniform curriculum for the whole Presidency. The whole course which extends over 5 years, has been so arranged that pupils who desire to proceed to middle and high schools can do so without inconvenience at the close of class IV. The work of class V will be of a vocational nature and is intended to suit the requirements of those boys whose studies would ordinarily not extend beyond the primary stage.

2. The curriculum now proposed includes a wide range of subjects, but three only in which alone a fair standard of teaching may be expected from the average teacher, will be compulsory, viz.,

- (1) Bengali (beginning with the alphabet and ending with simple composition and elementary grammar),
- (2) Bengali handwriting,
- (3) Arithmetic.

The primary scholarship examination will be confined to these three subjects.

The optional subjects will be as follows :—

(1) **History.**—This subject will not be formally taught below class V. The readers used in the lower classes will, however, contain stories culled from history, and the teachers will supplement the grounding thus given by the verbal narration of historical incidents.

(2) **Science.**—In stages I and II the pupil will be taught to observe plants, animals, birds, etc. In stage III he will be taught to observe accurately such phenomena as clouds, rainfall, &c., and to record his observations. In stage IV the principles of growth will be explained. In stage V the children in rural schools will learn to make observations of nature and weather, while children in town schools will learn measuring, weighing &c.

(3) **Manual work.**—The children will be encouraged to do independent work.

(4) **Geography.**—The children will begin with the recognition of simple geographical phenomena and end with a detailed study of the geography of India.



(5) **English.**—The teaching is excluded from the preparatory stage and will be confined to class V, so as to keep the primary school organization in touch with that of secondary schools.

(6) **Drawing.**—The object of the syllabus is to train pupils in the art of accurate observation and correct expression.

(7) **Music.**— } Details are given in the syllabus.

(8) **Drill.**— }

(9) **Hygiene.**—The necessity of personal cleanliness and healthy surroundings is to be impressed upon the children.

(10) Domestic economy and needlework (for girls' schools only).

3. The syllabuses for the different subjects enumerated above are published for general information and the Governor in Council will be glad of criticisms or suggestions on the following points, namely :—

(1) whether the syllabuses as regards compulsory and optional subjects are sufficiently comprehensive ;

(2) whether they are suited to the capacity of the pupils for whom they are intended ;

(3) whether they are likely to fulfil the objects for which they have been drawn up ;

(4) whether the length proposed for the primary school course is adequate or whether its duration should be made longer or shorter ;

(5) whether sufficient or suitable differentiation has been made between urban and rural schools ;

(6) whether the number of hours to be devoted to each subject is adequate ; and

(7) whether any of the optional subjects included in the curriculum should be begun earlier or later.

4. All communications on the subject should be addressed to the Director of Public Instruction, Bengal, Writers' Buildings, Calcutta, within three months of the publication of this Resolution in the *Calcutta Gazette*.

**ORDER.**—Ordered that the Resolution together with the draft syllabuses be published in the *Calcutta Gazette*, that a copy of it be forwarded to the Director of Public Instruction, Bengal, for information, that copies be forwarded to the newspapers with the request that they will be so good as to publish the Resolution, and to Commissioners of Divisions (with spare copies) with the request that they will invite all District Boards and Municipalities in their divisions to consider the syllabuses and to forward their suggestions, if any, to the Director of Public Instruction, Bengal, by the due date.

By order of the Governor in Council,

S. W. GOODE.

*Offg. Secy. to the Govt. of Bengal.*



## PROPOSED CURRICULUM FOR PRIMARY SCHOOLS IN BENGAL.

### Bengali.

Course.	Text-books.	Number of hours.
<i>Class I.</i> —Association between names and forms of letters. Building and spelling of words. Distinct articulation to be aimed at.	Alphabet book	5
<i>Class II.</i> —Intelligible reading of sentences from readers. Conversation on common objects, primary colours, etc. Learning of easy poems. First instruction in writing.	A Reader of 20 pages.	5
<i>Class III.</i> —Reading short tales about animals, etc. Reproduction of the stories, etc., in child's own words. Conversation on common objects. Practice in the structure of simple sentences and easy dictation. Learning of easy poems. Writing from copy on blackboard.	A Reader of 30 pages.	5
<i>Class IV.</i> —Reading, including character sketches and dialogues. Oral description and development of the power of expression. Recitation of poetry. Writing of letters to teachers and parents. Practice in written composition and transcription from blackboard and other copies. Reading and writing of easy specimens of kabuliats, jamakharach, etc. ( <i>Vide</i> History syllabus also.)	A Reader of 40 pages.	6
<i>Class V.</i> —Reading, including lives of men of eminence (Hindus and Muhammadans and others connected with the history of India) and national legends, children's magazines, etc. Learning of 40 lines of poetry. Simple composition, elementary grammar. Writing of letters with proper forms of address to landlords and business people.	A Reader of 50 pages.	4
Useful information about the work of Co-operative Societies, District Boards, Municipalities, Chankidari system, law of landlords and tenants.	A supplementary Reader to be published by the Department.	...

### Handwriting.

#### The Teaching of Penmanship in High, Middle and Primary Schools.

THE aim of the present syllabus is to call attention to existing defects in the system of teaching penmanship, to bring forward certain specific points of advice, and to lay down a few general principles that will guide the teacher in his work.

**General principles.**—Whether penmanship is taught in the vernacular or in English, certain general principles have to be observed. It is often forgotten that writing is an art that must be acquired by slow degrees. As such, it must be taught to the learner with the utmost care in the earliest stages. The pupil must work under the teacher's eye in the first instance; and only after he has acquired some degree of skill, may he be left to himself. In schools teaching should be collective. It is necessary, therefore, to supervise the progress of each class as a whole. The pupils of each class must keep pace with each other, profiting by each other's faults when corrected by the teacher, and attaining to a certain uniform level of work.



**Existing defects.**—At present the examination of handwriting in our schools reveals the following defects:—

- (a) The initial stages are neglected. The youngest children are not shown clearly how to form the elements of their letters before attempting to write the letters themselves; nor do they form single letters *on any well-defined model*.
- (b) Handwriting is seldom taught in class under the teacher's eye. Pupils write much at home; but this is done in their own way, without supervision.
- (c) There is no uniformity of progress. At present the penmanship of any single class exhibits varying degrees of difficulty and every variety of attainment. One pupil presents a sheet of single words written at home, another a page of connected prose, another of verse, and so on.
- (d) The examination of the home-work of any one class shows not only that the pupils have not been shown how to write, but that they do not understand what they have written. The spelling is defective and the words are often arranged in meaningless order.

As general principles, then, it has to be remembered that handwriting demands most careful attention at the start. The progress of the youngest pupils cannot be too slow. The immediate supervision of the teacher is essential. To begin with, penmanship must be done in class under the teacher's eye. Uniformity of work and progress must be arranged. The pupils of any one class should write the same material and in the same way. The correct understanding of the words or sentences to be written is essential if intelligent work has to be done.

**Earliest stages.**—It has to be remembered that young pupils have untrained hands and eyes. Children come to school before their bodies are mature, and we must exercise their organs in the correct use of writing materials. Great care must be exercised in the introduction to the child of a system of handwriting. He must learn the elements of the letters and the correct shape of the letters themselves. At this stage it will be expedient for him to practise on his slate or on pieces of paper with a pencil, before proceeding to the use of a copy book or an exercise book. Of course, good models must be provided for this practice. Much practice must be given in the formation of single letters and of parts of letters. At this stage and later, remember three things:—

- (1) The child must learn to hold his pen or pencil correctly.
- (2) There must be plenty of light, coming preferably from the left hand side of the writer.
- (3) The position of the pupil's body must be healthy and comfortable.

It has to be noted also that the teacher in selecting his models, will put before the child those forms of letters that he will continue to use later in his career. It would be foolish to teach a child one formation of English capital letters, and then introduce him to other formations in the later stages of his work.

**Collective instruction.**—Let us assume that the rudiments of English handwriting have been acquired. At this stage the pupil will have learned all the single and capital letters and he will have learned how to connect single letters and to write simple words. With the copy book in front of each pupil, careful collective instruction in class will begin. The pupils have each their book and pen before them on the desk or bench. The teacher stands at his blackboard ready to show how the letters have to be formed. In the earlier stages the pupils at the teacher's order will write one word. This must be rapidly surveyed by the teacher throughout the whole class and the essential errors corrected *in front of the whole class* on the blackboard. Of course, progress at this stage will be every slow. But the pupils will learn by the mistakes of their class mates. From word to word the lesson will proceed, each error being pointed out and publicly corrected. At this stage it does not matter in the least how much has been written; the quality of the work done is the important thing. When it is clear that the class has understood what is required, that it has learned the correct formation and style of the letters, *then, and not till then*, a home



task may be set. There seems to be some difficulty at present in the choice of home tasks. A few words or sentences may be selected from the copy books used by the class to whom the task is given, and the pupils will be told to write these a given number of times in *the same style as they have acquired in class*. Remember the following points:—

- (1) These exercises should not be long or irksome.
- (2) They should be invariably corrected by the teacher.
- (3) They are to be supplementary to, and not a substitute for, the class teaching described above.
- (4) They must be absolutely uniform; each pupil writing the same words and sentences. Only in this way can class correction be made possible and easy.

The same system will be found useful in the teaching of vernacular penmanship.

It will take some time for teachers and pupils to become accustomed to this system of class instruction. Head masters must explain the system carefully and make every effort to have it enforced. Time-tables should be adjusted in such a way as to admit of this class instruction. Lessons need not be of great duration: and in the higher classes these lessons in class may be reduced as the pupils begin to make perceptible progress. But in no case has the importance of this subject to be overlooked either in class or at home. There is a fatal tendency, explained by the demands of the Matriculation examination, to neglect penmanship as pupils become older. This should be rigidly checked and due attention paid to the written work of every boy in every class of the English teaching school.

**Method of advanced instruction.**—There is much that is altogether mechanical in the teaching of penmanship. It is necessary to pass through the stage of purely mechanical manipulation before any facility with the pen in the writing of a new script may be acquired. When a certain amount of facility has been attained, the intelligent teacher will try to relieve the monotony of the class lessons in penmanship. In the advanced teaching of handwriting in the senior classes of the school the following points should be observed:—

- (1) The whole school should be given instruction in penmanship. It may be left to the discretion of the head-master whether he will teach handwriting in the Matriculation class; but existing conditions make it imperative that penmanship in its more advanced stages should be taught from the sixth to the second classes *inclusive*, elementary teaching of this subject being confined to the two seventh classes. In the case of middle English schools instruction in this subject will extend naturally to the highest classes.
- (2) At this stage instruction will be on a basis of correlation. *The pupil must understand clearly what he writes.* If he does not so understand, he cannot write well. The teacher will explain the meaning of each head line to his pupils before they proceed to write it in class. In this way useful general knowledge will be acquired and instruction in penmanship made more interesting and intelligent. One important point to note is that the boys of each class must use at the same time the same book.

**Handwriting throughout the school.**—A good system of instruction in penmanship will be manifested in the careful work of the junior pupils, in the accomplished handwriting of the senior pupils and in the general appearance of all written exercise work. In the first four years of English study unremitting attention should be paid to class instruction in handwriting and to home exercises in handwriting. This must form an integral portion of the school routine and have its due place on the time-table. In the senior classes copy book practice should be continued under the teacher's eye, while home exercises in penmanship may be somewhat relaxed. It should be carefully noted that class instruction in penmanship will have little value if pupils are allowed to write their exercises in a slovenly manner. Such exercises as are given should be corrected with due attention to the way in which they are written and slovenly work should be rejected.



**Arithmetic.**

**Primary School.**

**Classes I—IV.**

There should be no deliberate teaching of number until five years of age. The teaching of the beginnings of Arithmetic should be founded upon the children's experience of actual objects. The objects should be handled and not merely seen, and the use of abstract number entirely avoided.

The scheme throughout the primary school stage should be *spiral*; and the old plan of knowledge and rules in water-tight compartments corresponding to the various classes should be abandoned. A rule should not be treated exhaustively at the beginning. The simplest aspect of the rule should be first dealt with, and then the rule should be left alone for a time and returned to later. Every rule should be first presented in a concrete form; and for this practical work on the part of the children is required. After several experiments they should be led to perform the operation "mentally", i.e., without the use of actual objects, and finally proceed to written work. This procedure should be followed whenever a new rule is attempted. In written work it is to be remembered that an intelligent arrangement is as important as getting a correct answer. A scholar is badly taught who can work on paper and yet be entirely unable to calculate "in his head", or conversely, if he can perform an arithmetical operation mentally and be unable to express the same operation, or a harder one involving the same principle, on paper. The practice of writing down answers to oral questions in the case of large classes is very useful.

**Class I. (Age 5—6) Total time 5 hours a week in half-hour periods.**

*First half-year—*

The analysis of numbers from 4 to 10 in succession, illustrated by objects like bricks, beans or seeds loose or on string, sticks, counters, etc. In the early stages, objects on which the teaching is grounded should not be arranged at equal distances in a straight line, but in groups with not more than three in a group. Games in which scoring is required. Shop games introducing coinages, weights and measures in a very simple way, but there must be no written work. Weighing scales should be used if the teacher can procure or devise them.

*Second half-year—*

- Revision of number up to and including 10.
- Addition and subtraction up to and including 12.
- Ditto                      ditto                      ditto                      24.
- Building up the "twos" table.
- Ruling and measuring with ruler marked in inches. Simple questions as "how long is your book?"
- Money table up to two annas, including 12 pies equal 1 anna; use tokens, dozens, pairs, halves.
- Revision exercises in addition, subtraction and multiplication (by 2) to 24.
- Linear table up to one foot (twelve inches), use ruler.
- Problems on 12 pies in one anna and 12 inches in one foot.
- Division of numbers up to 24 by 2 (no remainders).
- Measuring and sharing.

**Class II. (Age 6—7). Total time 5 hours a week in half-hour periods.**

*First half-year—*

- Extension of numbers to 36 (addition and subtraction).
- Building up "threes" table.
- Addition, subtraction, multiplication (by 2 and 3) to 36.
- Division by 2 and 3 to 36 (no remainders).
- Measuring in feet. Money to 3 annas.
- Addition and subtraction of numbers to 48.
- Building up "fours" table.



Addition and subtraction of money to 4 annas, of feet and inches to 4 feet.

Division and multiplication by 2, 3 and 4.

*Second half-year—*

Addition and subtraction of numbers to 60.

Building up "fives" table. Multiplication and division to 60 (by 2, 3, 4 and 5).

Addition and subtraction of money to 5 annas and feet to 5 feet.

Division and multiplication of money to 5 annas and inches to 5 feet.

Ruler exercises, halves and quarters, one pice is a quarter of an anna, 6 inches is a half foot, 3 inches is a quarter of a foot.

Addition and subtraction of numbers to 72. Building up the "sixes" table.

Division and multiplication of number to 72.

Addition and subtraction of money to 6 annas and inches to 2 yards.

Extension of numbers to 99 (addition and subtraction).

Multiplication and division of numbers to 99 (no remainders).

*Weights—*

5 tolas = 1 chatak.

4 chataks = 1 powah.

4 powahs = 1 seer.

**Class III. (Age 7—8.) Total time 5 hours a week in half-hour periods.**

*First part of year—*

Revision of number to 99 (+, -, × and ÷).

Ditto of money to 5 annas. Length (feet and inches).

Building up "sevens" table (× and ÷ by 7).

Money to 7 annas (+, -, × and ÷).

Extension of number to 250 (+ and -).

Number to 250 (× and ÷ by 7).

Practical measuring and estimating.

Building up the "eights" table.

*Capacity—*

4 kanchas = 1 chatak.

4 chataks = 1 powah.

4 powahs = 1 seer.

Money to 8 annas. Length to 8 feet. Half inches, half annas.

Sixteen annas in the rupee. (Two eight annas in rupee—four four-annas in rupee).

Ruling squares and oblongs.

Building up "nines" table (× and ÷ by 9).

Pies table to 9 annas. Money to 1 Re. 15 as.

Building up "tens" table (× and ÷ by 10).

In multiplying a number by 10 teach that the multiplicand is moved one place to left and a zero put in vacant units' place, thus

43      43  
430   not   430

The value of each digit is insisted upon throughout.

In dividing by ten the dividend is moved to the right, past the "decimal point" which is always just to the right of the units' place.

Thus—

43  
4·3

Introduce decimal ruler and show tenths. Measure lines to tenths and write both 4 $\frac{3}{10}$  inches and 4·3 inches. Use paper rulers made by teacher.

*Second part of year—*

Extension of number up to 500 (+ and -).

Number to 500 (× and ÷).



Multiplication and division by 100. In former case multiplicand is moved to left two places and two noughts added. In latter case dividend is moved to right two places past the decimal point, which is always just to the right of the units' place.

Practical work in quarters, halves, eighths.  
 Pies table to 10 annas. Coins to Rs. 2.  
 Revision. Seers and maunds introduced.  
 Building up the "eleven" times table ( $\times$  and  $\div$  by 11).  
 Pies table to 11 annas. Money exercises to Rs. 3.  
 Practical work. Telling the time.  
 Building up the "twelves" table ( $\times$  and  $\div$  by 12).  
 Pies table to 12 annas. Money exercises to Rs. 5.  
 Practical work. Drawing and measuring. Continue measuring lines to 10th of inch. Add two lines together and subtract a short line from a long line (i.e., addition and subtraction of decimals of one unit and one decimal place. Thus 4.6 inches - 3.2 inches). These and similar exercises should be done on the ruler.  
 Extension of money to Rs. 10.

*Third part of year—*

Extension of number to 999 ( $+$  and  $-$ ).  
 Number to 999 ( $\times$  and  $\div$ ).  
 Halves, quarters, eighths.  
 Extension of money to Rs. 20 ( $+$  and  $-$ ).  
 Ditto linear measure to yards.  
 Money to Rs. 20 ( $\times$  and  $+$ ).  
 Easy reduction of money.  
 Estimating and checking estimates of weight.  
 Ditto ditto length.  
 Easy measuring in square inches.  
 Measuring and easy reduction.  
 Capacity (chataks, powahs, seers and maunds) and weights (tolas, chataks, powahs, seers and maunds).  
 Easy shopping accounts.

**Class IV. (Age 8-9). Total time  $7\frac{1}{2}$  hours per week. Three-quarter hour periods.**

*First part of year—*

Revision of previous work.  
 Extension of number to 9999 ( $\pm$  and  $-$ ).  
 Ditto ditto ( $\times$  and  $\div$ ).  
 Ditto money to Rs. 50 ( $\pm$  and  $-$ ).  
 Ditto ditto ( $\times$  and  $\div$ ).  
 Ditto length to chains and furlongs.  
 Ditto weights to include maunds.  
 Factors, prime and composite numbers.  
 Great attention should be paid to factoring. The ability to detect readily the factors of numbers is invaluable later in highest common factor, least common multiple, reduction of fractions, etc. Cancellation, too, the great labour-saving device of arithmetic, depends upon skill in detecting factors.  
 Multiplication and division of numbers by factors.  
 Measurement in tenths, but express in decimals also.  
 Scholars to construct paper or cardboard ruler themselves.  
 Extension of addition and subtraction of tenths.  
 Multiplication and division of tenths.  
 Easy methods of multiplication and division, e.g., multiply by 20 and 50 in one line.  
 Scheme is multiply by 10 and double.  
 Easy reduction (downwards).  
 Ditto (upwards).  
 Simple scales, e.g., let  $\frac{1}{4}$  inch represent a foot.  
 Draw squares of  $\frac{1}{4}$  feet sides and give the area.  
 Simple plans, simple measurements of square or rectangular room.  
 Cardinal points: simple measurements.



*Second part of year—*

Long multiplication by numbers of not more than two digits.

Scheme is—

$$\begin{array}{r}
 156 \text{ nuts} \\
 16 \\
 \hline
 1560 \text{ nuts} = 10 \text{ times } 156 \\
 936 \text{ „} = 6 \text{ „ } 156 \\
 \hline
 2496 \text{ „} = 16 \text{ „ } 156
 \end{array}$$

Long division by numbers of not more than two digits.

Scheme is—

$$\begin{array}{r}
 32 \text{ groups of nuts each containing 31} \\
 31 \overline{) 998} \text{ nuts} \\
 \underline{93} \phantom{00} \\
 68 \phantom{00} \\
 \underline{62} \phantom{00} \\
 6 \text{ nuts over.}
 \end{array}$$

Problems on simple rules.

Easy reduction by factors, *e.g.*, 793 pieces of pān shared among 32 men.

$$793 \div 32 = 793 \div (4 \times 8) =$$

$$4 \overline{) 793} \text{ pān}$$

$$8 \overline{) 198} \text{ groups of } 4 + 1 \text{ pān over.}$$

$$24 \text{ groups of } 32 + 6 \text{ groups of } 4 \text{ over.}$$

Answer 24 pān each and 25 pān over.

Easy symbolic arithmetic, *e.g.*, how many annas are there in  $y$  rupees?

What does  $x$  equal when  $3x=36$ ?

Areas of squares and oblongs.

Making and using a set square (correlate with manual work).

Making the face of a clock

Simple Geometry. First ideas—an angle as the rotation of a line about a point. There are  $90^\circ$  in the right angle of the set square. how many degrees in each of the other two angles?

Compound multiplication and division by factors.

Easy fractions—addition and subtraction of fifths, halves, quarters, eighths, tenths, thirds, sixths, twelfths.

Conversion of simple fractions into decimals, denominators of 2, 4, 5 and 10 and no others at this stage.

Which of two fractions is greater, *e.g.*,  $\frac{1}{4}$  or  $\frac{1}{3}$ ?

Scheme is to divide upper part of a straight line into fourths and underneath part of line into thirds.



Now divide each fourth into three equal parts and each third into four equal parts, thus—



Thus  $\frac{1}{4}$  or  $\frac{3}{12}$  is greater than  $\frac{1}{3}$  or  $\frac{4}{12}$ .

Exercises on the railway map of Bengal or the roads on the district map

*Third part of year—*

Compound multiplication of money by factors using composite numbers of not more than two digits.

Compound multiplication of money using both kinds of numbers of not more than two digits.



Problems in concrete numbers and money.  
 Compound division of money.  
 Easy fractions, addition, subtraction and simple multiplication (denominators of 2, 3, 4, 5, 6, 8, 9, 10, 12).  
 Extension of addition and subtraction of decimals to two places.  
 Short mechanical methods of multiplication and division.  
 Cardinal points: Time measures.  
 Easy fractions, vulgar and decimal—parts of a rupee and all measures.  
 Preliminary square measure.  
 Easy symbolic arithmetic.  
 Representations by drawings.  
 Simple bills.

**CLASS V—of Primary School—Vocational year (age 9–10). Total time 7½ hours per week. Three-quarter hour periods.**

Subhankari, bazar sums, simple mensuration. Scholar to learn local bigha table with corresponding decimals of an acre.

### History.

#### Primary.

History as a separate subject appears for the first time in the fifth year of study. In the primary school curriculum a certain amount of history will be correlated with reading in the readers, and historical stories should be told in the earliest stages. Nothing more than this can be attempted.

#### Books.

Historical tales in the general readers. Oral stories from Indian Legend, etc.

**Class V.**—Cultivation of the “time sense” is necessary from the first. Extent of periods of 30, 50 and 100 years to be explained. Outline charts of Indian or World history to be shown in order to encourage the correct sense of time relationship. One period of Indian history should be given for moderately detailed study—the Hindu period.

- (1) Simple, complete and modern vernacular history of India with main periods defined.
- (2) Time charts of World and Indian history.

### Science.

#### Glasses I and II.

Here the course should be concentric and based chiefly upon elementary observations.

**Plants.**—The collection and observation of common plants, bark, leaves, fruits, seeds. *Flowers*: the cotton-tree flower, jessamine, goldmohur, champak, convolvulus, etc. *Fruits*: papaya, pomelo, litchi, mango, plums, custard apple, plantain, pineapple, jack fruit. *Ordinary crop plants*: rice, indigo, cotton, mustard, pulses. *Common trees*: children should be taught to observe bark, leaves, flowers, fruit; that is, each tree should be studied separately with regard to its bark, leaf, flower and fruit.

**Animals.**—Children should be taught to watch the habits of ordinary domestic animals. They should be taught the nature and habits of the commoner wild animals and snakes.

**Birds.**—They should be able to recognise the commoner birds such as the crow, blue jay, maina, golden oriel, owl, kingfisher, babui, bak, snipe, duck, pigeon, bulbul, kite, vulture, heron, kola bird.

**Insects.**—They should know the common insects; the season and time of day at which they appear, and their habits: the mosquito, dragonfly, butterfly, bee, wasp, ant, beetle, spider.

**Fish.**—The use of fins, gills, etc., should be taught. Skeletons may be shown and the commoner kinds of fish observed.

**Life histories.**—Throughout the year they should have an opportunity of studying one or two life histories of plants and insects, e.g., brinjal, white butterfly, other moths, silk worm, mosquito, water-beetle, frog.



## Class III.

Here the pupil must learn to observe accurately and to record regularly.

**First half of the year.**—The keeping of nature diary and calendar on the following lines:—

- (1) Clouds—amount of cloud, direction of cloud.
  - (2) Rainfall to be measured in tin or mud box in inches and tenths.
  - (3) Varying depths of tanks.
  - (4) Times of sunrise and sunset. Note sun at opening and close of school or any particular hour. Note varying objects on the horizon over which the sun rises and sets at different periods of the year.
  - (5) Shadow stick.
  - (6) Direction of wind: warm and cold breezes: note the direction of the wind in connection with the time of year.
  - (7) The moon and its changes.
  - (8) Diary of crops, *e.g.*, "My father commenced sowing his jute to-day". Observe the different kinds of paddy, *aus*-paddy—early, *aman*-paddy—late or transplanted, *boro*-paddy—winter crop, wheat, barley, oats, jute, sugarcane, chillies, arhar (pigeon-pea), matikali (grain), mustard.
  - (9) Note the date of the flowering of certain trees and bring the flower to school: mango, jack fruit, banana, cocoanut, date, betelnut, nim, rain tree, goldmohur, jamun.
  - (10) Note the date when the flower dies and when the fruit first appears.
- Along with the above should be arranged the experimental study of the development of the pea, bean, wheat and cucumber from seeds.

**Second half of the year.**—Collections should now be made, and an aquarium, an insectary and a museum may be started:—

- (1) **Aquarium** (covered).—Life stories of frog, mosquito, dragonfly, water-beetle.
  - (2) **Insectary**.—Lizard, silk worm, caterpillars, grubs, cysallis, butterfly or moth.
  - (3) **Museum**.—(1) Barks, leaves of trees, pressed flowers; (2) Collections of seed; (3) Collections of soil, each being classified with the crops grown on each. Samples of soil-forming rocks, *e.g.*, quartz, felspar, mica, etc.
- The method during the whole of standard III should be entirely that of the nature diary, *e.g.*, daily observation and the accurate recording of observations. The habit of careful recording must be inculcated before the systematic science course is commenced. Bengali weather proverbs should be taught throughout the course.

## Class IV.

At this stage the principles of growth should be explained.

- (1) **The Nature Diary** should be continued. These observations may be utilised in connection with Geography.
- (2) **The School Garden**.—Garden work to continue into Standard V, the final year of the Primary School. Points of importance are (1) the collections of soils made in the earlier observation of crops; (2) the drainage of the garden; (3) the general situation.
- (3) **Seeds**.—Germination tests with incidental observations, *e.g.*, which is stem, root, etc. Sow 50 seeds of each of several plants, *e.g.*, mustard on moist flannel—record the time and the number of days taken for germination—percentage germination. Other experiments, *e.g.*, depth of sowing, effect of moisture, heat, etc.
- (4) **Plants**.—Sow in the garden different plants at different times of year, *e.g.*, sugarcane in March and paddy in April. Measure the rates of growth under different conditions; and, incidentally, by so ordering the experiments work out the following principles of growth:—
  - (a) Plant and soil, the mechanical analysis of soil.
  - (b) Effect of heat, moisture, etc., on growing plant.
- (5) Connection between plant and animal life. Show how the plant breathes in the same way as an animal.
- (6) Life histories to be continued.
- (7) Observation of trees and animals for the nature diary.
- (8) Simple weather observations for nature diary.



**Class V.**

The final year of the Primary School course—

(1) Continue daily weather observations and nature observations in the nature diary.

(2) Continue school gardening: The garden should be close to the school. It should be fenced in if possible, well drained, and of sufficient size to allow a plot of land for each pupil, and a central path. There should be a well, or other source of water-supply, easily available.

**Tools.**—Each boy will require a kodali, a kharpi, a basket (which he can make himself) and a reaping hook, a watering can, a measuring tape and lines of thick cord with pegs will be required for marking out the plots.

**Course.**—*Digging* with kodali. Effect and purpose of digging.

**Manuring.**—Effect and purpose. Plant food.

**Seeding.**—Why seed must not be sown too shallow or too deep. As seed grows study plumule and radicle.

**How plants feed and grow.**—Functions of root, stem and leaves.

**Production of seed.**—Pollination and formation of seed.

**Harvesting.**—Crops should be harvested and samples of seed collected in small bottles. Germinating tests should be made later, and percentage of germination found.

**Crops.**—The following rotation of crops can be sown in one plot.

**1st year (Class IV.)**

**Kharif.**—(1) Jute, (2) *Aus*-paddy, (3) Maize, (4) Juar.

**Aghani.**—(1) *Aman*-paddy.

**Rabi.**—(1) Mustard, (2) Wheat, (3) Linseed, (4) Gram.

**2nd year (Class V.)**

**Kharif.**—(1) Sugarcane, (2) *Aus*-paddy, (3) Jute, (4) Maize, (5) *Aman*-paddy.

**Rabi.**—(1) Sugarcane, (2) Linseed, (3) Wheat, (4) Peas, (5) Gram.

**Alternate 5th year course.**

*Class V of Primary Schools in towns—measuring, weighing, heating and the science of common things.*

Measurements of length—first with the eye and then with the rule.

Measurements of area.

Wire-gauge; callipers; scales and weights.

Weighing of common objects—first by hand, then with scales.

Measuring time—a clock (show works), a watch, use of pendulum.

Plumb line.

Spirit level.

Steam—Observation on boiling water, condensation of steam, etc.

Mercury: Effect of heat on mercury—Expansion.

Thermometer—Its manufacture, uses, readings in ice, in boiling water, under tongue, in school room, in sun.

Water—How carried. Wells, pipes, taps, fountains, canals. Things that float, rafts, boats. Things that sink, anchors. How water is lifted. Methods of irrigation in India. Pumps.

Air—Bubbles, pouring water through a funnel into a bottle. How fishes live. A burning candle. Fans. Paper windmills. Aeroplane propeller. Shuttlecock, arrow, kite. The pop-gun.

Winds—A sailing ship. A syringe. A bicycle tyre, pump and valve.

A barometer.

A candle—its composition; the wick. A lamp.

Candle under tumbler over water: candle in narrow-necked bottle.

Chalk—What is it? Obtain limestone by heating it: Lime water.

Sugar heated in a test-tube; wood heated in a test-tube.

Sulphur ditto; Lead ditto ditto.

Powders—Flour, chalk, pencils, blacklead.

Pastes—Paste, clay, putty, mud, brickmaking, pottery.

Porous solids—Bread, sponge, brick, chalk, blotting paper, wicks, earth, springs, filter.



Solids that dissolve—Salt, sugar, manufacture of sugar, crystals, hard water, varnish.

Things that stretch—Rubber, elastic bands, a football, bicycle tyre.

Things that bend—Bow and arrows, cord, rope (hand made), springs, spiders' webs, clock springs, chains.

Things that melt—Ghee, tallow, wax, lead, iron and iron smelting.

Forms of strength—Floor, joists and boards, stairs, ladders, arch, the roof.

Machines—A lever, pulleys, a knife. Scissors, hoop, fly-wheel of sewing machine. Bicycle, the chain, gearing. The loom. Hinges, axles—the grindstone, screws and screw drivers.

Sounds—Drum, whistle, sounds from stretched strings. A bell, harmonium.

### Manual Scheme for Primary Schools.

**Primary stage.**—Owing to the fact that the infant classes are usually left alone to employ themselves during at least a part of the day, and that manual training in many schools is an optional subject both for teachers and scholars, the exercises should be interesting and so arranged that they can be done by the children independently.

#### Class I.

**Clay modelling.**—Simple household utensils, pottery, etc. Modelling in connection with the beginnings of Geography. The children should model from pictures or from models made by the teacher.

#### Class II.

Stick laying with the use of seeds to shapes shown on a wall chart.

The following shapes may be used :—

An umbrella, a house, a tent, a fence, a gate, a fence and gate, a door, a window, a house with fence and gate, a group of tents, a tree, a plant (with half sticks and a seed), a tree (with half sticks), a tree bearing fruit (small real leaves may be added), a window (with quarter sticks), a verandah, a balustrade, a large house with balustrade, verandah, a door and windows; add fence, gate, trees, plants, a water lifter; add these to house. (Several children should now work together under charge of a monitor.) A man, a cart, a cow, a man carrying, *bail* gharry, add a box to the gharry. Build up a hat from several new elements, children working together; thus—a stall, a basket of seeds, lentils, rice, miniature bundles of jute. Several children may now construct a hat of four shops. Now add a river and a man rowing a boat, now a bridge, a man carrying a basket on his head, etc.

#### Class III.

Tear out of paper, according to picture chart, a wall, a house, a man, a tree, a boat, a large *pucca* house, a cow, a hen, a vulture, a horse, a horse carriage, cow-cart, a bridge, a man with a spade, a man fishing, a man with a *lathi*. A man with a bundle on his head. Multiply them by folding the paper and so build up a street. A railway engine carriage, etc. Each model may be improved with pencil or colours. Make a book (using a pin for stitching), an envelope.

The teacher may teach any paper folding which he knows; and the first and second classes may combine in this work.

#### Class IV.

Clay work combined with sticks. The models suggested in the first and second years should be made with clay and sticks combined and any other materials available. The models should be as true to life as possible and should not be flat but standing. All materials may be used, *e.g.*, straw for roofs, leaves for plants, paper for men's clothes, scissors and knives may be used if available.

#### Class V.

Cardboard modelling. All work must be accurate to  $\frac{1}{16}$ th inch. Glue should be used and not paste. Brass paper fasteners (split pins) are useful. Plenty of coloured paper should be provided. Models must be completely



finished before inviting the approval of the teacher; for example, the model may be painted suitably or covered with coloured paper; drawers should also have handles (a piece of cork or wood glued on), hinges to doors, etc. The model must be approved by the teacher in regard to the accuracy of its construction, the testing of dimensions, etc., before the scholar is allowed to decorate it.

The material used should be thin cardboard or thick paper. The exercises indicated below cannot be performed satisfactorily with ordinary foolscap paper or with strawboard.

Two methods of working should ordinarily be followed :—

- (1) The scholars should construct their models from a dimensioned drawing shown on a wall chart or in a text-book.
- (2) They should construct their models from an actual object by taking measurements of the object and working to scale.

#### *Vocational year of Primary School.*

Dimensioned sketches of objects and models given on a wall chart.

(1) Construct a cardboard ruler graduated in inches, half the ruler in half inches, quarter of the ruler in quarter inches, a sixth in eighths and one inch in tenths.

(2) Construct a cardboard scale showing 1" to foot up to 3 feet. Measure and draw plans of furniture to scale.

(3) Draw circles and simple geometrical figures (*e.g.*, triangle, square, oblong) to scale. Cut out in cardboard. Save these models for future experiments.

(4) Construct a cardboard 45° set square. Copy direct from model. Make another half size. Ditto for 30°, 60°, set square. Refer to angles as 1, 2, 3 and make them at each corner.

(5) Draw and cut out triangles using the set squares.

(6) Construct and cut out a protractor.

(7) Graduate and cut out a thermometer scale. Copy from actual object.

(8) Draw and cut out the following flat objects :—A box with sides flattened out, a clock, a house with sides flattened out, a door, a window, a fence (made of pieces of paper cut to scale); a gate, a bridge with pillars, with arches, a picture frame, etc.

(9) Models constructed to scale but not in the flat, an envelope (in paper), a tray, a picture frame (to stand up), a box, a table, a stool, a house, a house with windows and doors. Add a fence to it. Sliding callipers, a weather-cock (working model), a kite a windmill, a fan. Embellish and finish all these models in ways which may suggest themselves to an artistic temperament, but on no account must the finishing process be utilized to cover up inaccurate work. This again applies to all manual work throughout the middle school and high school stages.

(10) Simple models in paper and cardboard illustrating History, Literature and descriptive Geography.

### **Geography.**

#### **Primary stage.**

**Classes I and II (half hour per week).**—In the earliest stage all that can be attempted at present in Bengal is the illustration of the simplest geographical phenomena. Children should be led to recognise and name simple geographical facts visible within reach of the school. In this way rivers and lakes will be recognised, but nothing elaborate at this stage can be attempted. The teacher will be compelled to work largely from school pictures, which must be provided. Whenever possible, modelling in clay should accompany these early lessons. Geographical definitions to be based on modelling. Weather observations should be made in conjunction with Nature Study and the teacher should compile a nature calendar from the combined observations of the whole class.

**Class III (2 hours per week).**—Rudimentary idea of measurement leading to idea of a plan. Stories of other lands. The recognition and the naming of geographical phenomena should be continued. Easy facts of observation recorded in class in the nature calendar. Modelling of land forms continued.

**Class IV.**—The plan of the compound should be explained and understood. Extended stories of description. The main physical phenomena



should be now familiar. Recorded observations by individual scholars if possible, but the class nature calendar should be continued.

**Class V.—(Preliminary to Regional Work)—Vocational year at end of Primary School course.**

1. **On the earth as a whole—Shape of the earth.**—Globe should be in constant use. If possible each child should have one.

Cause of day and night.

**Points of the compass.**—These might be marked on the floor of the class room. Children might be induced to observe the phases of the moon and the brighter constellations.

2. **Observational work in the neighbourhood.—The work of water**—as the most obvious agency which is modifying the surface of the earth. Drainage of rain which falls on the play-ground or any stretch of land covered with gravel.

Visits to a stream desirable. Observations may include variation of pace in the middle and at the sides, the normally bending course, greater rate of flow on the outside of the bend, the relative steepness of the bank on that side, deposits of sand on the inner side, the increased amount of sediment that can be obtained in flood time. This may lead to the following generalisation:

Increased speed leads to more wearing and carrying power.

Decreased speed leads to less carrying power and to deposition.

**Clouds and their formation.**—A mountain district affords a splendid opportunity for watching the formation and disappearance of clouds. Children should become familiar with different kinds of clouds. The class might watch and measure the shadows of a stick cast by the sun, and note the time of sunset.

3. **Description of the types of scenery**—as mountains or the sea, which are not found in the locality, and of typical regions such as the poles and the desert. The animals of these regions specially interest children. At this stage pictures of some size and colour are very important. To enable the teacher to form a clear image of the scenes which he is describing, it is useful to study the treatment of this kind of material by able writers, who have the power of appealing to children, e.g., Rudyard Kipling in the two *Jungle Books*.

4. **Teaching of the meaning of maps.**—Construct rough models of the district in a large sand tray.

Expeditions to be made to different points of view. Small pieces of wood can be used to mark children's homes and well-known buildings.

Following this comes the planning of the class room, etc.

5. **Early Treatment of India.**—Survey of the general structure of the country, using a good relief map and a bathy-orographical map.

The climate should be treated as simply as possible, basing it on the children's experience of their own locality.

Results of climate in the shape of crops and areas of population—very simply treated.

The distribution of plants and animals.

India taken as a great *agricultural country* may be divided simply into—

(i) Gangetic Plain	...	} To be treated separately.
(ii) Indus Plain	...	
(iii) Dekkan	...	

A Bengal village will serve quite well to illustrate an agricultural community of a simple type.

In the teaching of occupations, a preliminary study of the school's district from that point of view is necessary.

Description of farming operations; how products are disposed of; Calcutta as a port, distributing centre and Capital of Bengal. Different kinds of farming can be described:—crop-growing, stock-raising, dairy-farming, mountain-farming. The *Thar Desert* may serve as an example of that kind of region.

6. To complete the scheme, a course should be taken of man at the lower levels, e.g., *Hunting Stage*, which should fix attention on the means at his disposal for obtaining the prime requisites of life and his dependence



for success on his environment. At this point a consideration of how "Robinson Crusoe" fared would appeal to the child. Refer to the Gonds—the hunters of the Central Provinces.

7. In addition for the vocational year at the end of the Primary School course the principal continents should be shown on the globe. The distribution of the British Empire should be shown also on the globe. Pupils should know some hing of the essential details of the descriptive or political geography of India.

### English.

#### Primary.

*Class V.—The Rudiments.* These will consist in recognising and pronouncing English letters and one syllable words. Charts having letters, words and appropriate pictures will be employed; and the method will resemble that familiar to the child when three years previously he learned the elements of his vernacular. But where trained teachers are employed, the direct method should be fully used, and the simplest sentences may be practised. The sentence then becomes the unit of the lesson. The child should express a simple action in his vernacular in the form of a simple sentence. The English equivalent is then given; and when the new sounds are thoroughly familiar to the pupil, they may be written down on the blackboard. Having learned to speak easy sentences in this way, it is easy for the child to learn to read and write them. At this stage the pupil has already learned to read and write his own vernacular. It is imperative to encourage the learner to speak in English at the earliest possible time. At this first stage an easy text-book may be used for reading; and speaking and reading should go together almost from the beginning.

#### Books.

Charts, pictures.

This represents only one stage of progress in the middle and high school courses; but in the primary school it represents the beginning and end of the study of English. Primary school pupils should be sure of their English figuring. They should also be able to write a plain school hand and to decipher an address on a letter. A restricted vocabulary of useful words in every-day use should be acquired.

### Drawing.

Any syllabus of drawing cannot proceed along the ordinary lines adopted for other subjects. It is useless to lay down a set course for each class in succession, because the progress made by the pupils varies so much, in accordance with individual aptitude and skill, that no single class can be expected to continue to do the same work throughout the year. Moreover, the supply of material differs so widely in different schools that any set course is almost impossible. It is possible, however, to decide upon a method of teaching. Certain general principles may be laid down at the outset. These may be stated as follows:—

- (1) Drawing is in the first instance a training in observation and in accurate observation. At the start it does not matter in the least whether the work of the child is beautiful or not. What does matter is the extent to which his observation has been accurately trained.
- (2) After this preliminary training, drawing should gradually become an art of expression. The child should be able to put on paper his conception of an incident, or of a story, or the impression which a flower or a landscape makes upon his visual sense. This, of course, represents an advanced stage in his instruction, when he has passed beyond the necessity of single models.



- (3) From the earliest stage all drawing must be done from the actual object. No such thing as a copy should be allowed in the school room. In India the application of this principle should not give the slightest difficulty. There is an infinite number of simple and beautiful objects, from the brass vessels of the household to the fruits, flowers and leaves of the country.

If these three principles are clearly understood, all that remains for the teacher is to determine his method and the instruments which he will put into the hands of his pupils.

**Earliest stages of instruction.**—Children should be provided with pencils and with odd pieces of paper having a good surface. There is no need to provide drawing books at the beginning; but a pupil may be promised a drawing book when he has shown some progress with simpler material. No india rubber should be used by the children. If the black-board is used by the teacher to show how to begin and develop a drawing, the pupils must not copy the teacher's work, but must look carefully at the object itself and draw from it. At this stage the utmost care must be taken to secure the exercise of accurate observation. If a child is drawing a familiar fruit or leaf, he is almost certain to put down on paper his general idea of the flower or leaf, and not a representation of the object as he actually sees it. For this reason it is advisable to give models to young beginners that have distinct characteristics in their shape. The left hand side of the drawing should be first attempted, as this method leaves the work clear of the hand and keeps the drawing clean. In arranging single objects for beginners, it is advisable to select such things as will provide various grades of difficulty, for example, if a beginning is made with a leaf, it is easy to advance from the single leaf to a simple spray and thence to sprays with flowers and so on. This arrangement must be left to the common sense of the teacher; and the rate of progress should differ with individual pupils according to their skill and aptitude.

Each single object must be carefully analysed and reproduced as it actually appears to the pupils. Take for example a single leaf. This object must be considered from the point of view of size, proportion and shape. The number of ribs should be carefully noted, and not guessed at, and the way in which these ribs branch from the midribs should be carefully observed. All this can be explained by the teacher orally; and to begin with the pupils may be asked to give their observations in words. The actual drawing should be done in this way. The midrib should be drawn first with due attention to its position and curve. The left outline of the rib will then follow, and after this the right outline can be put in. There is no better object than this as an example of the method to be followed; and the variety of leaves in India is certainly adequate. Each drawing must be carefully checked from the point of view of the child's observation; and every care should be taken to insist upon the reproduction on paper of the essential features of the object. For this reason the drawing should never be on a small scale. It is better to make the work too large than too small.

There is a great variety of leaves in India, and much practice may be given in realising their essential features and in reproducing these. Other easy objects may be found amongst common fruits and vegetables that possess definite shapes and that are likely to impress the eye of a child.

**Instruments to be employed.**—In the great majority of schools the only instruments procurable are paper and pencil. Much can be done in the use of the pencil alone, and in the later stages of instruction a certain amount of pencil shading might be aimed at. Attention should also be paid to the quality of the line. But for young children by far the most useful instruments, in addition to the pencil, are pastel crayons. These may be used for colouring pencil drawings. With these crayons colours may be mixed, one being put on the top of the other. The colour should be put on lightly and rubbed in with the little finger. The effect is usually soft and pleasing. Instruction in the mixing of colours is, of course, necessary. Many schools will be able to secure these pastels at any school supply depôt in Dacca or Calcutta. Here again the training of the observation is of the first importance. The true colours of the natural object must be discussed by the teacher and the pupils, and the variations in the colour must be observed. Other instruments may be secured by preparing coloured inks from chalks and in the use of paint boxes. The latter demand the use of brushes; and if these are introduced, care must be taken to give the children practice in brush



work at a fairly elementary stage. This means little more than the manipulation of the brush in a variety of easy forms. It is clear that no great advance in artistic work can be made unless all these instruments are employed. But in primary elementary schools, where expensive apparatus cannot be secured, a valuable training in observation may be given by means of pencil and paper alone. Whenever possible it is desirable to introduce some kind of colour-work, as this in itself is of great interest to the beginner.

**Progress in the Simpler Methods.**—In the use of pencil, crayon or brush, progress will depend upon the skill and capability of individual pupils. In Art work it is essential to recognise and foster individual talents, and no single pupil should be kept back in order to keep pace with the class to which he happens to belong. This individual progress can be encouraged by the provision of harder models and of more difficult instruments such as crayons and paint-boxes. The principles of instruction will remain the same: but the models to be used and the complexity of their grouping will differ from one stage to another. Here everything depends upon the teacher. It is easy to advance from leaves to sprays and flowers. Fruits and vegetables may be had in abundance, and these provide every variety of shape, mass and colour. But these objects do not exhaust the possible range of subjects nor the possible methods of treatment.

#### More advanced methods.

(I) **Manufactured objects.**—Much useful information may be derived from the study of manufactured objects such as brass utensils, cubes, cones, cylinders, tins, buckets, lamps, chairs, tables, bottles, etc., etc.; indeed any manufactured object whose shape involves a knowledge of perspective. Here there is the advantage of the simple instrument, pencil or pen and ink; and there is the additional advantage that with these instruments a certain amount of shading may be attempted. It is expedient to introduce this type of object as early in the course as possible; and to teach the elements of perspective as soon as the pupil has mastered the rudiments of form and learned to observe with some degree of accuracy. The following points should be noted:—

- (1) To begin with, the drawing of solids, such as a tin or cylinder, will involve the use of "construction lines". These will be removed on the completion of the drawing. Here also accuracy of observation is essential. The shape of a circle and ellipse varying with the point of view of the observer should be carefully noted. A box seen from various points presents a useful study. Take the following nine positions:—

- (1) the box placed below the eye.
- (2) Ditto above the eye.
- (3) Ditto at the left of eye.
- (4) the box placed at the right of eye,
- (5) Ditto below and at the left,
- (6) Ditto above and at the left,
- (7) Ditto below and at the right,
- (8) Ditto above and at the right,
- (9) Ditto directly in front of the eye.

In each position it is essential to draw exactly what and how much is seen. From these positions the elementary principles of perspective may be taught. Subjects of greater difficulty may be arranged by grouping solid figures.

- (2) In drawing solids attention should be paid to light and shade. A bottle or glass placed against a white background, and at sufficient height above the floor to throw a shadow, is a good model. The pupils may be shown how to differentiate between light and shade and how to express this by pencil work. In time they should be able to shade any solid figure and so produce a pleasing artistic effect.

- (3) Solid objects lend themselves to pen and ink work. This is valuable as a training in so far as it dispenses with india rubber, is a good substitute for colours and is final in itself: the first attempt cannot be altered as in pencil. Shading may be usefully practised in this way; and pupils will probably welcome the use of the pen as a proof of their progress.



The above suggestions are easily applicable to all schools, and depend little, if at all, on the supply of expensive material. Brass utensils, drinking vessels, boxes, bottles and any familiar object may be requisitioned as models. In the study of solids there is much scope for "ruler drawing" but such work does not come within the scope of any Art syllabus and belongs properly to manual and cardboard work. In the latter, accurate measurements by means of instruments on paper or cardboard are essential. But this involves not so much a training in observation, as practice in the use of instruments, and may be started whenever the pupil is able to do the simplest type of paper or cardboard work.

(II) **Mass Drawing.**—All the objects named above, both natural and manufactured, are useful for mass drawing. This involves a change of method. No outline is required but the object is built up as it were from the centre outwards. The crayon or chalk or charcoal should be held in the centre and the object produced by rubbing from right to left until the correct shape and mass are represented. This method is best illustrated by pastel crayons; but white chalk on brown paper, or charcoal on white paper is equally useful and easily procured. Fruits and vegetables are the best models for this treatment.

(III) **Blackboard Drawing.**—This mode is not easy with large classes unless special apparatus is provided, as for example, the walls of the room prepared for drawing, or boards and easels provided for each pupil. The method has many advantages. Work can be done on a large scale and is easily corrected; additional training is given to the hand and arm, and ambidexterous work can be encouraged.

**Complex subjects of study.**—When practice has been given in the foregoing methods and a considerable range of objects has been studied, it will be possible to take up more advanced work. To begin with, this should take the form of more complex objects of study, the difficult grouping of single objects, complicated arrangements of flowers and the study of trees. Animals and birds should now be employed and human figures. When the range of objects has been thus widened and made more complex, it is possible to practise some of the following methods:—

- (1) **Memory drawing.**—This may be introduced at a very early stage, but its value is likely to be better realised when the objects become harder. Having drawn from the actual object, the pupils may be asked to draw the same object from memory. This gives a valuable training in the observation of essential features, and compels a certain concentration of mind.
- (2) **Drawing from imagination.**—This may be made an exercise of great interest. Pupils may be asked to illustrate historical or other picturesque incidents in their reading lessons. Little can be expected at first, but the simplest attempts are of value. If the pupils have covered a considerable range of objects, including the human figure, this exercise should arouse great enthusiasm and should be capable of much extension.
- (3) **The study of movement.**—This will be taken up with the drawing of animals, trees and human figures, and should precede drawing from imagination. Exercise in the latter will compel the pupil to acquire some skill in the expression of action.

In these more advanced stages drawing should be recognised in the school as a definite method of expression, and should be freely used in other branches of study. It is essential in Nature Study and in Geography. The main features of the local landscape should be familiar to the pupils, and they should be able to reproduce these. Apart from its specific uses, a training in drawing is of the utmost value in school-life. The work should be so directed by the teacher from the outset as to produce orderly habits of mind, and a certain neatness and dexterity in the use of pen or pencil. Observation and concentration of interest must be encouraged; and in the bringing of a piece of work to completion in a reasonable time there enters the element of discipline. It will be long before work of really artistic value appears in the class room, but the observation and appreciation of natural beauty must be encouraged; and in drawing this appreciation usually brings a speedy reward in the obvious superiority of the work.



**Music.**

**CLASSES I AND II.**

*Ages 6 and 7.*

**Exercises—স্বরসাধন।**

রাগ।  
Rag.  
তাল।  
Tal.  
শাস্ত্রবোধ।  
Theory.

**সহজ সারগম।**

Easy scales.

আলাইয়া।  
Alaia.

তেতাল।  
Tetala.

হাতে তাল দেওয়া।  
Mark time with the hands.

**ভিন্ন তাল সারগম।**

Scales in the prescribed Tal.

বিভাস।  
Bibhash.

একতাল।  
Ektala.

খাম্বাজ।  
Khambaj.

**CLASSES I AND II.**

*Ages 6 and 7.*

Text-book recommended for the teacher's use—Pages 1 to 7.

গীত পরিচয়—শ্রীসুরেন্দ্রনাথ বন্দ্যোপাধ্যায় প্রণীত—মূল্য ১৬০ আনা।

Git Parichaya—By Surendranath Bandyopadhyaya—Price 6 annas.

Songs recommended.

বাঙ্গলা।

১। “মেঘের কোলে”—বিভাস, একতাল, আনন্দ সঙ্গীত পত্রিকা, আশ্বিন ১৩২২।

২। “দেহ জ্ঞান দিব্য জ্ঞান”—আলাইয়া একতাল, আনন্দ সঙ্গীত স্বরলিপি, প্রথম ভাগ, ১৩৩ পৃষ্ঠা।

৩। “তোমারি গেহে”—খাম্বাজ, একতাল, আনন্দ সঙ্গীত পত্রিকা, আশ্বিন ১৩২২, আনন্দ সঙ্গীত স্বরলিপি, প্রথম ভাগ, ১৬৭ পৃষ্ঠা।

হিন্দী।

১। “হরিগুণ গাবে”—বিভাস তেতাল, গীত পরিচয়, ৭ পৃষ্ঠা।

২। “নিশিদিন তাকো”—আলাইয়া, তেতাল, গীত পরিচয়, ৫ পৃষ্ঠা।

৩। “সৃষ্টি করতা”—খাম্বাজ, দাদরা, গীত পরিচয়, ৮ পৃষ্ঠা।

মহুব্য।

বাঙ্গলা গানে তেতাল বা দাদরা তাল নাই, কিন্তু একতাল আছে।

**CLASSES III AND IV.**

*Ages 8 and 9.*

**Exercises—স্বরসাধন।**

রাগ।  
Rag.  
তাল।  
Time.  
শাস্ত্রবোধ।  
Theory.

**কঠিনতর সাধন।**

More difficult.

ভূপালী।  
Bhupali.

দাদরা।  
Dadra.

হাতে তাল দেওয়া।  
Mark time with the hands.

**ভিন্ন তালে সারগম।**

Scales in the prescribed Tal.

ঝিঞ্জিট।  
Jhinjhit.

ঠুংরী।  
Thungri.

ছায়ানট।  
Chhayano.



## CLASSES III AND IV.

Ages 8 and 9.

Text-book recommended for the teacher's use—Pages 7 to 13.

গীত পরিচয়—সুরেন্দ্রনাথ বন্দ্যোপাধ্যায় প্রণীত—মূল্য ১০/০ আনা।

Git Parichaya—By Surendranath Bandopadhyaya—Price 6 annas.

Songs recommended.

বাংলা।

হিন্দী।

- ১। “একি এ ফুলের শোভা”—ইমন-তুপালি, কাওয়ালি, ব্রহ্ম সঙ্গীত স্বরলিপি, তৃতীয় ভাগ, ২০ পৃষ্ঠা।
- ২। “গাওরে ভগপতি”—বিঁকিট, ঠুংরী, ব্রহ্ম সঙ্গীত স্বরলিপি, তৃতীয় ভাগ, ৬২ পৃষ্ঠা।
- ৩। “হৈ সখা মম হৃদয়ে রহ”—ছায়ানট, এক-তালা, ব্রহ্ম সঙ্গীত স্বরলিপি, প্রথম ভাগ, ১৬১ পৃষ্ঠা।

- ১। “দেব দেব তাদি”—তুপালি, তেতালা, সঙ্গীত মঞ্জরী, ৬৩৭ পৃষ্ঠা।
- ২। “ফুলের বদন”—(১) বিঁকিট, দাদরা।
- ৩। “মেরোগন”—ছায়ানট, তেতালা, সঙ্গীত চক্রিকা, দ্বিতীয় ভাগ, ১১৮ পৃষ্ঠা।

মন্তব্য।

- ১। বাংলা গানে কাওয়ালি আছে। হিন্দী গানে তেতালা ও দাদরা আছে।
- ২। “গাওরে ভগপতি”র বদলে “কর তাঁর নাম গান” দেওয়া যেতে পারে—বিঁকিট, ঠুংরী, ব্রহ্ম সঙ্গীত স্বরলিপি, দ্বিতীয় ভাগ, ১১৮ পৃষ্ঠা।

## CLASS V.

Ages 10 and 11.

Exercises—কড়ি কোমলযুক্ত সারগম।

ভিন্ন তালে সারগম।

Sharps and flat scales.

Scales in the prescribed Tal.

রাগ।	ভৈরবী।	বেহাগ।	মল্লার।
Rag.	Bhairabi.	Behag.	Mollar.
তাল।	ঝাপতাল।	তেওরা।	
Time.	Jhanptal.	Teora.	
স্বরলিপি।	আকারমাত্রিক স্বরলিপির প্রধান চিহ্ন।		
Notation.	Write the prescribed signs.		
শাস্ত্রবোধ।	শেখা গানের রাগ ও তালের নাম ও হাতে তাল।		
Theory.	Names of Rag and Tal of songs learnt and mark the time with the hands.		



CLASS V.

*Ages 10 and 11.*

Text-book recommended for the teacher's use—Page 13, to end.

গীত পরিচয়—শ্রীসুরেন্দ্রনাথ বন্দ্যোপাধ্যায় প্রণীত—মূল্য ১৬/০ আনা।

Git Parichaya—By Surendranath Bandyopadhyaya—Price 6 annas.

Songs recommended.

বাঙ্গালা।

হিন্দী।

- ১। “জীবনে যত পূজা”—ভৈরবী, তেওরা, গীতালিপি, চতুর্থ খণ্ড, ১ পৃষ্ঠা।
- ২। “মহারাজ একি সাজে”—বেহাগ, কাঁপ-তাল।
- ৩। “এসহে এস সকল ঘন”—মল্লার, কাঁপ-তাল, গীত পরিচয়, ১৪ পৃষ্ঠা।

- ১। “গণেশ জননী”—ভৈরবী, কাঁপতাল, সঙ্গীত মঞ্জরী, ১০৫ পৃষ্ঠা।
- ২। “মেরে ধূন্দন”—বেহাগ, কাঁপতাল, সঙ্গীত মঞ্জরী, ৫১৯ পৃষ্ঠা।
- ৩। “তুন ভবন”—মল্লার, তেওরা, সঙ্গীত চন্দ্রিকা, দ্বিতীয় ভাগ, ১৭৪ পৃষ্ঠা।

মন্তব্য।

১। যদি “মহারাজ একি সাজে” পাওয়া না যায়, তার বদলে “আজ আনন্দে প্রেমচন্দ্র” দেওয়া যেতে পারে—বেহাগ, কাঁপতাল, ব্রহ্ম সঙ্গীত স্বরলিপি, প্রথম ভাগ, ৮২ পৃষ্ঠা।

Drill.

Text-Book : Drill Book with Instructions to Teachers—Gray.

Class I.

Marching and drill as in standard I.  
Country games. Kapate, etc. Relay races.

Class II.

Revision of standard 1.  
Marching and drill as in standard 2.  
Country games. Relay races.

Class III.

Revision of standard 2.  
Marching and drill as in standard 3.  
Games; Group I

Class IV.

Revision of standard 3.  
Marching and drill as in standard 4.  
Games; Group I.

Class V.

Revision of standard 4.  
Marching and drill as in standard 5.  
Games; Group I.



## Hygiene and Domestic Economy Syllabus for Girls' Schools.

### Class II.

**Hygiene and Domestic Economy.**—The whole method of keeping clean the hut or house and its surroundings.

**Food.**—Cleanliness to be observed. Cleaning of utensils. Supply of good water for cooking food. How to ascertain when fish, vegetables, etc., are fresh. The cooking of rice and the advantage of eating it warm.

**Sleep.**—Regular hours of sleep. Disadvantage of excessive sleep in the daytime. Use of mosquito curtains. Airing and sunning of bedding and blankets.

### Class III.

**Kitchen.**—The cleaning of utensils, preparation of vegetables and rice for cooking.

**Washing of clothes.**—Ventilation and sunlight. Sunning and airing of bedding, mats, etc.

Abuse of drugs and intoxicants in districts in which the consumption of drugs and intoxicants prevails among women.

### Class IV.

**Kitchen.**—Full preparation of rice in all stages from the paddy.

**Water.**—Danger of drinking impure water. Importance of boiling and filtering water.

**Care of infants.**—Bathing; use of mustard oil; cleanliness of clothing; preparation of foods; sleep. Proper treatment and handling of infants.

Abuse of drugs and intoxicants in districts in which the consumption of drugs and intoxicants prevails among women.

### Class V.

(a) **Village Sanitation.**—Causes of the insanitary condition of a Bengal village and their influence on the prevalence of malaria—(1) jungles; (2) filthy tanks and too numerous surface collections of water; (3) too close proximity of cultivated lands to dwelling-houses; (4) bad drinking water; (5) inefficient drainage, etc. Measures for improved sanitation.

(b) A brief account of malaria; its causes, treatment and prevention.

(c) **Sick nursing.**—The sick-room: necessary furniture, cleanliness, ventilation, bedding, washing of patients. Food of patients.

Details of nursing, such as the giving of medicine, use of the thermometer, changing of sheets, the use of sheets, the use of disinfectants, etc.

(d) Abuse of drugs and intoxicants in districts in which the consumption of drugs and intoxicants prevails among women.

*N.B.*—The work throughout these standards should be made as practical as possible. Hardly any value attaches to this subject, unless it is taken in a practical manner. They will only be possible in respect of all branches of the subject in boarding schools, but day schools may nevertheless do much in this way.

## Hygiene for Boys' Schools.

In the first three classes of Primary Schools in this Presidency lessons on Hygiene should be entirely oral. These lessons should take the form of talks on the following or similar topics:—

- (a) The necessity for personal cleanliness.
- (b) The necessity for keeping rooms clean.
- (c) The necessity for pure water, fresh air, sunlight and ventilation, the danger of shutting up sleeping-rooms.
- (d) The danger of insanitary and dirty habits, such as spitting.
- (e) The necessity of exercise.
- (f) Some information as to how simple complaints—wounds, snake-bites, burns, etc., should be treated: how a drowning person should be handled, etc.



The teaching must proceed not merely by precept but by example. The first essential, then, is that the teacher himself should be a man of healthy and clean habits; the second that the school should be well ventilated and scrupulously clean; the teacher should also insist that every child who comes to school must be clean and tidy.

**Class IV.**

1. Cleanliness—Skin and hair.

Clothing and bedding.

Food.

Water and air.

Bathing.

Dwelling house.

Care of bowels, disposal of waste urine.

Waste and refuse.

2. Stimulants—Bhang, charas, etc. Cigarettes and spirits.

3. Contagious diseases—malaria, small-pox, plague, cholera—cause prevention and cure.

4. First aid—Hæmorrhage, fractures and drowning.

**Class V.**

1. Cleanliness—Personal.

Water and air.

The dwelling.

Hair lice, body lice.

2. Food. Need for, kinds of.

3. Food. Effect of excess, rules of eating.

4. Disease. How spread through water, food, clothing, contact.

Malaria, consumption, enteric, plague, cholera.

5. Exercise, Need of.

**Text-books to be used in Classes IV and V.**

*Any one of the following—*

1. Village Sanitation (Palligrane Svasthyaraksha). (Revised edition.) Dr. Kamakhya Charan Banerjee. (Asoke Chandra Banerjee.) As. 3.

2. Swasthya Bijnan. Jaharlal Das, L.M.S., and Sarat Chandra Brahmachari, M.A., B.T. (Brojendra Mohan Datta, Students' Library, Calcutta.) As. 5.

3. Garhasthya Swasthya Niti, Part II, Lt. P. Choudhury, M.B., I.M.S. (B. C. Basak, Albert Library, Dacca.) As. 3-6.

4. Swasthya Katha (for boys). Girish Chandra Basu. (Ghosh & Co., Calcutta.) As. 3.

5. Swasthya Tattwa. Part I. Rai Harinath Ghosh Bahadur, M.D. (Author.) As. 5.

6. Bengal Text Book on Hygiene and Domestic Economy. Dr. C. Banks and Haridhan Datta. (Macmillan & Co.) As. 2-6.

7. Swasthya O Grihasthalir Katha (for girls). Girish Chandra Basu. (Ghosh & Co., Calcutta.) A. 1.

8. Easy Lessons in Hygiene, Standards III and IV. Rai Dinanath Sanyal Bahadur, B.A., M.B. (S. C. Sanial & Co.) As. 4.

*N.B.*—These books are also intended for the corresponding classes of Girls' Schools in Bengal.



**The Needle-work Syllabus for Girls' Schools.**

**Class I.**

- (i) Needle drill and hemming.
- (ii) Top sewing and back stitching.

**Class II.**

- (i) Running, filling and patch work.

**Class III.**

- (i) Cross-stitch.
- (ii) Making a chemise (gathers can be, but need not be, used for the band).
- (iii) Plain knitting with two needles.

**Class IV.**

- (i) Cutting out and making a jacket.
- (ii) Making button holes.
- (iii) Marking on cloth in vernacular characters.
- (iv) Knitting plain and purl with two needles.

**Class V.**

- (i) Cutting out and making a petticoat with tucks, and gathering it and putting it into a band.
- (ii) Darning and herring-boning.
- (iii) Knitting of plain socks for babies.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 10th July 1919.

**Summary.**—The rainfall was generally heavy in Eastern Bengal and was light to moderate elsewhere. More rain is still needed in some western districts. The recent rain has greatly facilitated the transplanting of winter paddy and has improved the prospects of standing crops. Harvesting of jute and autumn paddy has commenced in the low-lying tracts of Eastern Bengal. The average price of common rice for the Province has slightly risen as compared with that of the previous week. The average number of persons engaged daily on test works in the Brahmanbaria subdivision of Tippera was 2,222.

Serial No.	District and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	2.25	5½	5½	Transplanting of <i>aman</i> paddy continues. Fodder and water are sufficient.
	Diamond Harbour.	8.82	5½	5½	
	Barrackpore	2.3	5½	5½	
	Barasat ...	1.91	5½	5½	
	Basirhat ...	9.81	6½	6½	
2	NADIA ...	2.23	5½	5½	More rain is wanted. Weeding of jute and <i>aus</i> paddy continues. Prospects of jute are fair; the effects of the weather are favourable. Some damage has been done to jute by insect-pests.
	Kushtia ...	(n)	(n)	5½	
	Meherpur ...	(n)	(n)	6½	
	Chuadanga ...	3.52	6	5½	
	Ranaghat ...	2.22	5½	5½	
3	MURSHIDABAD	2.45	5½	5½	Prospects of standing crops are fair. More rain is wanted for transplanting of winter paddy. Condition and prospects of jute are fair. Cattle-disease is reported from Mirzapur in Jangipur and Burwan in Kandi subdivisions. Fodder is sufficient. No large import or export.
	Lalbagh ...	2.01	5½	5½	
	Jangipur ...	3.65	5½	5½	
	Kandi ...	4.90	5½	5½	
4	JESSORE ...	4.25	6	6	Weeding of jute is nearly finished. More rain is wanted. Standing crops are doing well. Condition and prospects of jute are fair; the effects of weather are favourable. Slight damage to jute by insect-pests is reported from Jhenidah subdivision. Fodder is sufficient.
	Jhenidah ...	3.30	6½	6½	
	Magura ...	4.04	5	7½	
	Narail ...	2.24	5½	5½	
	Bangaon ...	3.75	6	5½	
5	KHULNA ...	8.45	5½	5½	Transplantation of <i>aman</i> paddy is going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cultivation is over. Fodder and water are sufficient.
	Satkhira ...	11.99	6	6	
	Bagerhat ...	6.63	5½	5½	

(n) Not reported.



Serial No.	Districts and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	2.64	5½	5½	Weather rainy. Weeding of <i>aus</i> paddy is going on. Transplanting of <i>aman</i> paddy is progressing slowly for want of sufficient rainfall. Jute and sugarcane and vegetables are doing well. Prices continue high.
	Asansol ...	2.27	5	5	
	Katwa ...	3.06	5½	5½	
	Kalna ...	(n)	(n)	5½	
7	BIRBHUM ...	3.85	5½	5½	Transplantation continues. More rain is wanted. Standing crops are doing well. Fodder and water are sufficient.
	Rampurhat ...	5.18	5½	5	
8	BANKURA ...	8.72	5½	5	Sowing and transplantation of paddy are going on. Prospects of standing crops are good. More rain is wanted. Export of rice and paddy continues.
	Vishnupur ...	2.22	5½	5½	
9	MIDNAPORE	1.54	5 to 5½	5 to 5½	Transplantation of winter rice continues. The jute crop has been damaged in Contai subdivision by excessive rainfall in June, elsewhere condition and prospects are fair.
	Ghatal ...	2.76	5½	5½ to 5½	
	Tamluk ...	3.47	5 to 6	4½ to 6	
	Contai ...	2.00	6 to 6½	6 to 6½	
10	HOOGHLY ...	3.60	4½	5	Fodder is sufficient. Price of rice is rising. Cattle-disease is reported from Polba thana. Condition and prospects of jute are fair; the effects of weather are good, but the growth has been slightly affected by heavy rains. No damage is reported.
	Serampore ...	3.22	5½	5½	
	Arambagh ...	(n)	(n)	(n)	
11	HOWRAH ...	3.87	5½	5½	Weather seasonable and not unfavourable to jute. Condition and prospects of jute are fair. Weeding continues. Transplanting of winter paddy has commenced.
	Ulubaria ...	5.76	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	3.24	5	4½	The prospects of jute and other standing crops are favourable. The weather is beneficial to jute crop. Fodder is sufficient.
	Naogaon ...	4.56	5½	5½	
	Nator ...	2.91	4½	5½	

(n) Not reported.



Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERs. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ... Thakurgaon Balurghat ...	4.05 5.58 6.78	5½ 6 5½	6 6½ 5½	The rainfall has been sufficient and helpful to standing <i>bhadoi</i> paddy and jute crops. Fodder is sufficient. The price of rice is rising owing to large exports.
14	JALPAIGURI Alipur ...	9.33 4.36	5½ 5	5½ 5	Condition and prospects of standing crops are fair. Effects of weather are favourable to jute. Fodder is sufficient.
15	DARJEELING Kurseong ... Siliguri ... Kalimpong ...	13.07 17.53 7.50 9.48	4½ 5 4½ 5	4½ 4 4½ 5	Harvesting of potatoes and <i>marua</i> continues. Cardamoms and maize are progressing well. Standing crops have been benefited by the rainfall. Steeping of jute has commenced. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
16	RANGPUR ... Nilphamari Kurigram ... Gaibandha ...	4.96 4.42 (n) 1.71	5 5½ (n) 5	5 6½ 6 5½	Weather seasonable and its effects are favourable to jute. Harvesting of <i>aus</i> paddy and jute is in progress. Transplantation of winter rice is going on. Condition and prospects of jute are good. Fodder and water are sufficient. The export of rice is still going on.
17	BOGRA ...	5.62	5½	5½	Harvesting of <i>aus</i> paddy and steeping of jute have commenced. Some damage is being done to jute by insects; prospects are fair. Preparation of lands for transplanted winter paddy is going on. Fodder is insufficient in flooded area.
18	PABNA ... Sirajganj ...	1.88 2.58	5½ 4½	(n) (n)	Prospects of jute and paddy are good. Fodder is sufficient.
19	MALDA ..	4.61	5½	5½	Weather seasonable. Condition of <i>bhadoi</i> paddy and jute has been improved by the rain. It has facilitated cultivation of winter paddy. Prospects of jute are fair. Sowing completed. No damage to crop is reported. Fodder and water are sufficient. Cattle-disease is reported from Shibganj and Englishbazar thanas.
20	COOCH BEHAR	9.16	6½	6½	Weather cloudy and rainy. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for winter paddy and transplantation of seedlings are in progress. Fodder is sufficient. Cattle-disease is reported from the interior.
21	DACCA ... Manikganj ... Narayanganj Munshiganj*	4.97 4.00 5.38 6.85	5½ 4½ 5½ 5½	5½ 5½ 5½ 5½	Weather seasonable. The standing crops are doing well. Condition and prospects of jute are fair though a little damage has been by insect pests.

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
22	MYMENSINGH	3.13	5½	5½	Weather sultry. Transplantation of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Prospects of standing crops are good. Fodder and water are sufficient.
	Jamalpur ...	4.50	4½	5½	
	Tangail ...	(n)	(n)	5½	
	Netrakona ...	7.0	5½	5½	
	Kishorganj...	9.57	5	5½	
23	FARIDPUR ...	2.63	5½	6	The effects of weather are favourable to jute. Stocks of rice are insufficient in some parts of Gopalganj subdivision. Prospects and condition of jute are hopeful. Fodder is sufficient.
	Goalundo ...	5.21	5½	5½	
	Madaripur ...	7.44	5½	5½	
	Gopalganj...	5.14	6½	6½	
24	BAKARGANJ (BARISAL).	13.40	5	5	Fodder is sufficient. Prospects of standing crops are fair. Cattle-disease is reported from Matbaria in Pirojpur thana. Condition and prospects of jute are good in Patuakhali, fair in Bhola but not good in Pirojpur, cultivation of the crop is over. Harvesting has not commenced.
	Pirojpur ...	6.95	5½	5½	
	Patuakhali...	17.83	5½	5	
	Dakshin Shahazpur (Bhola).	5.58	5	5	
25	CHITTAGONG	9.05	5½	6	Prospects of standing crops are fair. Transplantation of <i>bhadoi</i> paddy is going on. <i>Panga</i> salt is selling at 11 and 9 seers per rupee at Sadar and Cox's Bazar respectively. Fodder is sufficient.
	Cox's Bazar	11.12	5½	5	
26	TIPPERA (COMILLA).	3.76	5	5	The prospects of <i>aus</i> paddy are fair. Condition of jute is good; the effects of the weather on the growth of the crop are favourable. Some damage has been caused to jute by insects. Harvesting has not yet commenced: 2,032 men, 73 women and 117 children worked daily on an average in test works in Brahmanbaria subdivision. Cattle disease is reported from Brahmanbaria subdivision.
	Brahmanbaria.	1.87	5½	5½	
	Chandpur ...	3.32	4½	5	
27	NOAKHALI ...	4.76	4½	4½	Weather seasonable. Fodder sufficient.
	Feni ...	9.89	5½	{ 5½ 6½ }	
28	CHITTAGONG HILL TRACTS.	7.02	5	5½	Progress of <i>jhum</i> cultivation is reported to be fair and plough cultivation has improved.

\*The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
† Rangoon rice.

DACCA, the 14th July 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of June 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914. <sup>a</sup>
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	2 12 0	3 4 0	3 4 0	2 8 0	...
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	3 14 0	4 0 0	1 14 0	2 6 0	3 10 0	3 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 2 0	4 4 0	1 12 0	2 4 0	3 8 0	3 0 0	...
Chittagong ...	4 0 0	4 0 0	(c)	2 10 0	3 8 0	2 14 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	4 8 0	4 8 0	2 0 0	3 10 0	3 4 0	4 0 0	...
Narayanganj (n) ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Fabua ...	4 2 0	4 8 0	2 4 0	2 12 0	3 4 0	3 10 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	4 0 0	4 0 0	1 10 0	2 14 0	3 4 0	3 0 0	...

<sup>a</sup> Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 8 0	2 4 0	2 14 0	3 1 0	...
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	3 8 0	3 12 0	1 10 0	2 2 0	3 4 0	2 14 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 0 0	4 0 0	1 7 0	2 0 0	3 0 0	2 10 0	...
Chittagong ...	4 0 0	4 0 0	(c)	2 9 0	2 14 0	2 12 0	2 10 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	4 0 0	4 0 0	1 12 0	3 2 0	3 0 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Fabua ...	4 2 0	4 8 0	1 14 0	2 8 0	3 0 0	3 8 0	3 10 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	3 8 0	3 8 0	1 4 0	2 8 0	3 0 0	2 4 0	3 2 0

(c) No sale.  
(n) Not reported.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of June 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 8 0	9 8 0	6 8 0	7 0 0	7 14 0	7 8 0	6 12 0
Chota Hat							
Burdwan	8 4 0	8 8 0	5 0 0	6 0 0	9 0 0	6 8 0	6 8 0
Kalna							
Raniganj							
Midnapore	8 8 0	8 0 0	3 8 0	4 14 0	6 8 0	5 8 0	5 8 0
Chittagong	12 0 0	12 0 0	8 0 0	8 0 0	10 0 0	9 0 0	7 8 0
Chandpur							
Dacca	8 4 0	8 4 0	4 6 0	6 0 0	6 4 0	6 12 0	6 8 0
Narayanganj							
Mymensingh							
Medanipur							
Pabna	10 0 0	10 0 0	6 0 0	7 8 0	7 4 0	8 2 0	8 0 0
Sirajganj							
Rangpur	8 8 0	8 8 0	4 8 0	6 4 0	6 8 0	7 8 0	8 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	7 8 0	7 8 0	4 8 0	4 8 0	5 0 0	6 8 0	5 12 0
Chota Hat							
Burdwan	7 4 0	7 12 0	3 2 0	4 1 0	5 4 0	4 8 0	5 2 0
Kalna							
Raniganj							
Midnapore	7 8 0	7 8 0	2 14 0	4 2 0	5 8 0	4 12 0	4 10 0
Chittagong	6 8 0	6 8 0	3 8 0	4 6 0	5 0 0	4 8 0	5 0 0
Chandpur							
Dacca	7 8 0	7 8 0	4 0 0	5 8 0	5 12 0	5 10 0	5 0 0
Narayanganj							
Mymensingh							
Medanipur							
Pabna	7 0 0	7 3 0	3 3 0	4 10 0	5 2 0	6 0 0	5 13 0
Sirajganj							
Rangpur	7 12 0	7 12 0	3 8 0	4 12 0	5 0 0	6 8 0	6 4 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of June 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	5 0 0	5 0 0	5 0 0	4 8 0	3 14 0	4 8 0	4 6 0
Obelia Hat ...	...	...	...	...	...	...	...
Bardwan ...	(a)	(*)	4 0 0	5 12 0	5 3 0	6 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	5 12 0 to 5 0 0	5 12 0 to 5 0 0	5 4 0	5 0 0	6 0 0	5 4 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	4 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 11 0	(*)	3 10 0	4 0 0	...	...	3 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	12 0 0	12 0 0	5 4 0	5 4 0	5 0 0	5 8 0	4 12 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	5 0 0	5 0 0	5 0 0	4 8 0	5 0 0	5 7 0	...
Obelia Hat ...	...	...	...	...	...	...	...
Bardwan ...	11 2 0	11 2 0	6 2 0	5 0 0	6 0 0	6 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	10 8 0 to 11 0 0	10 8 0 to 11 0 0	7 0 0	5 12 0	4 0 0	4 4 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	9 0 0	9 0 0	6 8 0	7 8 0	7 0 0	6 4 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of June 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 0 0	7 0 0	4 0 0	3 4 0	3 2 0	3 9 0	3 12 0
Chetla Hat ...							
Burdwan ...	7 3 0	7 3 0	3 3 0	3 6 0	3 12 0	4 0 0	3 14 0
Kalna ...							
Raniganj ...							
Midnapore ...	7 10 0	7 4 0	4 0 0	3 14 0	4 4 0	4 3 0	
Chittagong ...	to 8 0 0	to 7 12 0	to 4 4 0	4 0 0	4 0 0	3 3 0	
Chittagong ...	7 3 0	7 3 0	4 3 0				
Bandipur ...							
Dacca ...							
Narayanganj ...							
Mymensingh ...							
Medanipur ...							
Pabna ...							
Sirajganj ...							
Rangpur ...	9 0 0	9 0 0	5 4 0	7 0 0	7 0 0	6 10 0	

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	10 0 0	10 0 0	5 3 0	4 0 0	5 0 0	5 3 0	5 4 0
Chetla Hat ...							
Burdwan ...	12 0 0	12 0 0	5 3 0	4 3 0	5 3 0	5 12 0	6 0 0
Kalna ...							
Raniganj ...							
Midnapore ...	11 0 0	10 3 0	5 4 0	5 0 0	5 3 0	5 0 0	
Chittagong ...	to 12 0 0	to 12 0 0	to 7 0 0	to 5 3 0	to 5 12 0	7 0 0	
Chittagong ...	11 4 0	11 4 0	6 0 0	6 3 0	7 0 0	7 0 0	7 0 0
Bandipur ...							
Dacca ...	11 3 0	11 4 0	5 0 0	5 0 0	7 0 0	3 4 0	7 4 0
Narayanganj ...							
Mymensingh ...							
Medanipur ...							
Pabna ...	10 0 0	11 3 0	5 0 0	5 0 0	7 4 0	3 0 0	5 3 0
Sirajganj ...							
Rangpur ...	(a)	(a)	5 0 0	7 3 0	7 0 0	6 10 0	5 0 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of June 1919.**

Marts.	LINSEED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	58	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	8 3 0	11 8 0	11 8 0	8 0 0	7 12 0	7 12 0	8 0 0	25 6 0	25 6 0	40 0 0
Cheita Hat	...	...	...	...	...	...	...	...	...	...	...	...
Burdwan	(a).....	(a).....	6 5 0	13 3 0	12 8 0	6 0 0 to 7 0 0	8 0 0	8 0 0	6 0 0 to 8 0 0	(a).....	(a).....	34 0 0
Kalna	...	...	...	...	...	...	...	...	...	...	...	...
Raiganj	...	...	...	...	...	...	...	...	...	...	...	...
Midnapore	14 0 0	14 0 0	4 4 0	15 0 0 to 16 4 0	14 12 0 to 15 12 0	7 4 0 to 8 0 0	7 12 0 to 8 0 0	7 12 0 to 8 0 0	8 4 0	40 0 0	40 0 0	43 0 0
Chittagong	10 0 0	10 0 0	10 0 0	13 0 0	13 0 0	7 0 0	11 8 0	10 8 0	6 0 0	16 0 0	16 0 0	20 0 0
Chandpur	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	12 0 0	12 0 0	5 8 0	11 9 0	11 0 0	7 10 0	10 8 0	10 8 0	9 3 0	...	...	...
Narayanganj	...	...	...	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...	...	...	...
Pabna	(a)	(a)	4 5 0	12 7 0	(a)	7 8 0	9 0 0	8 0 0	7 3 0	...	...	...
Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...
Rangpur	...	...	...	12 0 0	12 0 0	6 4 0	11 8 0	11 8 0	6 0 0	...	...	...

Marts.	JUTE.			GRK.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 0 0	78 0 0	78 0 0	70 0 0	450 0 0	Per 100 pieces. 450 0 0	450 0 0
Cheita Hat	...	...	...	...	...	...	...	...	...
Burdwan	(a).....	(a).....	8 10 0	78 0 0	78 0 0	58 0 0 to 70 0 0	(a).....	(a).....	40 0 0
Kalna	...	...	...	...	...	...	...	...	...
Raiganj	...	...	...	...	...	...	...	...	...
Midnapore	7 0 0	7 0 0	8 0 0	74 0 0 to 88 0 0	74 0 0 to 88 0 0	60 0 0 to 85 5 0	325 0 0	Cleaned piece per 100. 325 0 0 Uncleaned piece per 100. 300 0 0	210 0 0 175 0 0
Chittagong	...	...	...	78 0 0	78 0 0	66 0 0	...	...	...
Chandpur	8 4 0 to 12 0 0	5 10 0 to 8 8 0	3 8 0 to 7 0 0	...	...	...	...	...	...
Dacca	...	...	...	77 0 0	77 0 0	61 0 0	...	...	...
Narayanganj	5 8 0 to 10 0 0	8 4 0 to 10 4 0	5 0 0 to 8 0 0	...	...	...	...	...	...
Mymensingh	8 0 0 to 10 0 0	8 0 0 to 10 0 0	4 0 0 to 6 0 0	...	...	...	...	...	...
Madaripur	8 0 0 to 8 0 0	(b).....	4 12 0 to 6 0 0	...	...	...	...	...	...
Pabna	...	...	...	73 0 0	73 0 0	75 0 0	...	...	...
Sirajganj	4 0 0 to 8 0 0	4 0 0 to 8 0 0	3 8 0 to 4 8 0	...	...	...	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0
Rangpur	7 0 0	7 0 0	4 0 0	72 0 0	72 0 0	60 0 0	...	...	...

(a) Not in stock.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of June 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	83	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	10 0 0	10 0 0	20 0 0	3 6 0	3 2 0	3 13 0	4 2 0(a)	4 2 0(a)	2 11 0
Chetta Hat									
Burdwan	16 0 0	16 0 0	20 0 0	3 2 0	3 2 0	4 1 0	2 7 0(b)	2 7 0(b)	3 6 0
Kalpa									
Raniganj									
Midnapore	3 0 0 to 14 0 0	3 0 0 to 15 0 0	3 0 0 to 25 0 0	3 9 0	3 8 0	4 4 0	4 0 0(b)	4 0 0(b)	5 3 0
Chittagong	24 0 0	24 0 0	20 0 0	3 4 0	3 4 0	3 12 0	3 0 0	4 0 0(c)	2 4 0
Chandpur									
Dacca				3 12 0	3 12 0	4 3 0	4 1 0(d)	4 3 0(b)	3 0 0
Narayanganj									
Mymensingh									
Madaripur									
Pabna	20 0 0 to 25 0 0	20 0 0 to 25 0 0	27 0 0	3 12 0	3 12 0	4 3 0	3 4 0	5 0 0(A)	4 10 0
Sirajganj									
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 6 0	4 6 0(A)	4 6 0(A)	4 3 0

(a) Monkey brand. | (b) Rizul Sun. | (c) Elephant. | (d) Mosque mark. | (A) Gold Mohar.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	88	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	20 0 0	0 10 0	0 10 0	0 14 0			
Chetta Hat							0 9 0	0 9 0	0 8 0
Burdwan	26 0 0	26 0 0	18 0 0	0 8 0	0 8 0	0 11 0	0 8 0	0 7 0	0 12 0
Kalpa							0 9 0	0 9 0	0 12 0
Raniganj							0 1 10	0 2 3	0 3 2
Midnapore	37 0 0 to 38 0 0	37 0 0 to 38 0 0	20 0 0 to 22 0 0	0 7 0	0 7 0	0 7 0			
Chittagong	37 0 0	37 0 0	24 0 0						
Chandpur									
Dacca	37 0 0	37 0 0	23 3 0						
Narayanganj									
Mymensingh									
Madaripur									
Pabna	32 0 0	32 0 0	20 0 0						
Sirajganj									
Rangpur	30 0 0	30 0 0	21 0 0						

DACCA,  
The 11th July 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of June 1919.**

DIVISION.	Number.	DISTRICTS AND MANIS.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL. ( <i>Phaseolus radiatus</i> ).			ANJAR (DAL) OR THUR, CAJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
PRESIDENCY.		24-MANGANAM.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
		1 Chetla Hat ...	5 0	5 0	5 10	5 3	5 5	10 10	4 0	4 0	7 0	4 0	4 0	5 0	11 0	10 0	5 2
		2 Magra Hat ...	5 5	5 0	11 0	5 4	5 5	12 4	(a)	(a)	7 5	3 5	3 10	7 5	11 5	11 12	5 13
		3 Calcutta-Bellaghata	5 3	5 3	5 0	5 3	5 3	10 0	4 11	4 11	6 7	3 13	3 13	7 0	10 0	10 0	10 0
		NADIA.															
		4 Goarl ...	5 7	5 4	10 3	5 15	5 2	11 7	3 5	3 5	5 5	3 5	3 5	6 3	10 11	11 5	11 5
		5 Ranaghat ...	5 2	5 4	10 0	5 5	5 10	10 5	4 0	4 0	6 5	4 0	4 3	6 0	10 5	10 5	10 2
		MURSHIDABAD.															
		6 Berhampur ...	5 5	5 0	12 0	5 12	5 4	12 4	3 3	3 5	6 0	4 0	4 0	5 0	11 0	11 0	11 0
		7 Kendi ...	5 5	5 3	14 0	5 12	5 12	15 2	4 3	4 4	6 0	4 0	4 0	5 3	11 0	11 0	11 0
		8 Jangipur ...	5 0	5 0	13 0	5 4	5 2	13 6	3 3	3 3	5 0	4 0	4 0	5 0	10 0	10 0	9 12
BENGAL.		JESSORE.															
		9 Sadar ...	5 3	5 3	10 0	5 4	5 0	13 0	3 3	3 5	6 3	3 3	3 3	7 0	10 3	11 0	9 4
		10 Dargoon ...	5 15	5 5	12 5	5 10	5 2	13 5	2 11	2 11	4 9	3 9	3 9	6 6	11 4	11 4	9 2
		KHULNA.															
		11 Sadar ...	5 3	5 3	12 0	5 3	5 10	14 0	4 0	3 4	6 5	3 5	3 4	5 0	11 3	11 4	9 0
		12 Bagerhat ...	5 3	5 3	12 0	5 0	5 0	14 3	5 0	5 0	5 0	4 14	4 14	5 3	10 0	10 5	9 0
		BURDWAN.															
		13 Sadar ...	5 0	5 0	12 0	5 3	5 4	13 3	3 3	3 3	5 4	3 1	3 1	5 0	13 0	13 0	9 0
		14 Kalna ...	5 2	5 5	10 10	5 4	5 10	10 14	3 5	3 5	5 14	3 5	3 3	6 10	11 0	11 0	12 5
		BIRBHUM.															
		15 Suri ...	5 4	5 0	13 5	5 3	5 4	15 0	4 0	5 4	6 0	3 0	3 3	7 0	10 0	10 0	11 0
RAJSHAH.		16 Rampur Hat ...	5 0	4 12	14 0	5 2	5 0	15 0	3 3	3 3	5 3	3 0	3 4	9 0	11 0	11 0	13 0
		BANKURA.															
		17 Sadar ...	5 0	5 0	12 0	5 4	5 4	13 0	2 3	2 12	5 0	3 12	4 0	7 3	11 0	11 0	10 0
		18 Vishnupur ...	5 5	5 5	12 3	5 10	5 10	13 0	4 12	4 0	5 0	3 5	3 12	7 0	9 4	10 0	9 0
		MIDNAPORE.															
		19 Sadar ...	5 6	5 0	14 1	5 11	5 3	14 12	3 4	3 10	7 0	3 4	3 4	6 5 to 7 0	10 0	10 5	9 0
		20 Contal ...	5 3	5 3	13 3	5 0	5 0	15 0	3 0	3 0	7 0	3 3	3 3	7 0	10 3	10 3	8 0
		HOOGHLY.															
		21 Sadar ...	5 0	5 0	10 0	5 3	5 3	11 0	3 0	3 4	7 0	3 4	3 5	6 5	11 0	10 3	9 4
		22 Arambagh ...	5 0	5 0	10 0	5 3	5 3	11 5	3 4	3 5	5 11	3 0	3 5	5 4	10 10	10 10	9 0
RAJSHAH.		HOWRAH.															
		23 Sadar ...	5 3	5 4	10 15	5 10	5 0	12 0	3 11	3 12	7 0	3 10	3 12	5 0	10 12	10 0	10 0
		24 Ulubaria ...	5 4	5 0	10 0	5 12	5 0	11 0	4 0	4 0	6 4	3 3	3 3	6 3	11 3	11 0	9 4
		RAJSHAH.															
		25 Rampur-Boalia ...	4 14	4 14	10 14	5 0	5 0	11 7	3 3	4 0	5 13	3 6	3 6	3 12	10 0	10 0	9 12
		26 Nator ...	5 0	4 3	11 4	5 3	5 4	15 0	5 0	6 0	6 0	5 0	7 0	7 14	9 5	8 0	8 0
		27 Dinajpur-Railway Bazar Hat	4 15	4 13	11 3	5 0	5 5	11 6	3 11	4 0	6 0	3 3	3 10	5 2	9 10	10 3	8 0
		28 Jalpalguri-Sadar ...	5 0	5 0	10 0	5 3	5 0	12 0	4 0	4 0	7 0	4 0	4 0	5 0	9 0	8 0	7 4

\* Karkatob.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of June 1919—*cond.***

QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.

DIVISION.

RAJSHAHI.

DACCA.

CHITTAGONG.

COMMON RICE.

KALAI DAL (*Phaseolus  
radialis*).

ARHAR (DAL) OR TURU,  
OAJAN PEA (*Cajanus  
indicus*).

SALT.

Average.

Cheapest.

DISTRICTS AND  
MARKS.

Number.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

DANJELING.

29

Sadar ...

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

4 0

4 0

8 0

5 8

5 8

11 0

3 0

3 0

7 0

2 12

2 12

5 8

8 0

8 0

7 0

30

Shiguri ...

4 0

4 0

6 0

5 0

5 8

10 0

3 8

3 8

7 8

3 8

3 8

8 0

8 0

9 0

8 0

RANGPUR.

31

Sadar ...

5 0

5 0

11 0

5 8

5 8

11 8

4 0

4 0

8 0

...

...

7 0

9 0

9 0

8 0

32

Nilphamari ...

5 11

5 11

11 0

...

...

12 0

3 4

3 4

8 0

3 4

3 4

8 0

9 0

9 0

8 0

33

Bogra—Sadar ...

5 4

5 7

8 4

5 10

6 0

12 12

4 8

4 0

7 8

3 12

3 6

6 12

10 0

9 12

8 0

PADMA.

34

Sadar ...

5 4

5 0

11 8

5 8

5 0

13 0

4 0

4 0

8 0

4 8

4 8

6 0

10 8

9 12

8 0

35

Sirajganj ...

5 0

5 0

10 4

5 8

5 8

11 8

5 0

5 0

7 8

3 0

3 0

7 8

8 0

8 0

8 0

MALDA.

36

Sadar ...

5 0

4 12

13 0

5 4

5 0

15 0

4 8

4 8

8 0

3 0

3 0

8 0

10 8

10 8

8 0

37

Balla—Nawabganj ...

5 12

4 12

13 8

5 15

5 0

13 8

5 12

4 8

7 0

4 0

4 0

9 0

11 0

11 0

8 4

DACCA.

38

Sadar ...

5 4

5 4

10 0

5 14

5 14

12 0

4 8

4 8

5 4

3 2

3 8

6 8

10 10

11 0

8 0

39

Manohir Hat ...

5 4

5 4

12 0

5 4

5 4

12 0

...

...

...

3 4

...

...

9 0

8 0

8 0

MYMENSINGH.

40

Narairabad ...

5 8

5 8

11 8

5 8

5 8

11 8

4 0

4 0

8 4

4 0

4 0

8 0

9 0

9 0

8 0

41

Netrokona ...

5 8

5 8

11 8

5 10

5 12

12 4

5 0

5 4

9 0

3 4

3 8

7 0

10 0

10 0

8 0

FARIDPUR.

42

Sadar ...

5 8

5 8

13 0

6 0

6 0

13 4

6 0

5 12

6 0

4 8

4 0

6 0

8 0

8 0

8 0

43

Rajbari ...

6 0

6 0

12 0

6 0

6 0

13 11

6 0

6 0

6 0

4 8

4 0

6 0

8 8

9 8

8 0

BAKARGANJ.

44

Barisal ...

5 4

5 4

11 4

5 14

6 0

12 0

3 12

5 10

7 0

3 14

3 14

7 0

10 10

10 10

8 0

45

Pirojpur ...

5 0

5 0

11 4

5 4

...

11 4

4 8

...

7 0

(a)

4 0

5 0

8 0

8 0

8 0

TIPPERA.

46

Comilla ...

5 2

5 0

12 8

5 5

5 3

13 9

5 0

5 0

5 5

3 0

3 0

6 6

10 0

10 0

8 8

47

Chandpur ...

4 14

4 10

10 0

9 10

6 6

12 5

4 12

5 0

5 14

4 0

4 2

7 12

10 0

\* Karkatch.

(a) Not in stock.

DACCA,  
The 11th July 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	4th July 1919	6 A.M. ...	11.87'	101.83'	113.70'	0.20'	...	113.40'	111.35'	
	4th "	6 " ...	14.90'	56.319'	71.219'	...	0.10'	73.26'	70.26'	
	4th "	8.24 " ...	19.80'	...	...	...	0.30'	19.90'	20.40'	
Brahmaputra	4th "	8 " ...	25.10'	148.76'	173.86'	...	0.50'	173.06'	173.26'	
	4th "	12.24 P.M. ...	39.00'	...	...	...	0.20'	...	...	
	4th "	8 A.M. ...	18.50'	...	...	Steady		...	...	
Meghna	4th "	6.24 " ...	12.83'	1.61'	14.44'	...	0.17'	...	...	
	4th "	9.30 " ...	10.42'	1.61'	12.03'	...	0.50'	...	...	
	4th "	7 " ...	20.95'	...	...	0.15'	...	...	...	
Dhaleswari	4th "	7 " ...	26.20'	- 8.62'	17.58'	0.20'	...	...	...	
Bhagirathi	4th "	6 " ...	7.19'	1.509'	8.699'	...	0.13'	12.73'	11.92'	
Damodar	4th "	6 " ...	5.50'	92.58'	98.08'	...	0.25'	...	...	
Lakhya	4th "	... "	19.29'	- 5.59'	13.70'	...	0.21'	...	...	
Madaripur Bil Route	4th "	6 A.M. ...	9.90'	- 0.599'	9.301'	...	0.10'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	Compared with previous day's height.		Height above P. W. D. datum on same date in—		Remarks.
						Rise.	Fall.	1917.	1918.	
Ganges	5th July 1919	6 A.M. ...	12.07'	101.83'	113.90'	0.20'	...	113.80'	111.30'	
	5th "	6 " ...	15.20'	56.319'	71.519'	0.30'	...	73.26'	70.01'	
	5th "	8.24 " ...	19.50'	...	...	...	0.30'	19.90'	20.40'	
Brahmaputra	5th "	8 " ...	24.90'	148.76'	173.66'	...	0.20'	173.21'	172.86'	
	5th "	12-24 P.M.	38.90'	...	...	...	0.10'	...	...	
	5th "	8 A.M.	18.40'	...	...	...	0.10'	...	...	
Meghna	5th "	6-24 " ...	13.08'	1.61'	14.69'	0.25'	...	...	...	
	5th "	10-30 " ...	10.42'	1.61'	12.03'	Steady		...	...	
	5th "	7 " ...	21.20'	...	...	0.25'	...	...	...	
Dhaleswari	5th "	7 " ...	26.10'	-8.62'	17.48'	...	0.10'	...	...	
Bhagirathi	5th "	6 " ...	6.96'	1.509'	8.469'	...	0.23'	14.08'	11.12'	
Damodar	5th "	6 " ...	5.00'	92.58'	97.58'	...	0.50'	...	...	
Lakhya	5th "	...	19.33'	-5.59'	13.74'	0.04'	...	...	...	
Madaripur Bil Route	5th "	6 A.M. ...	10.00'	-0.599'	9.401'	0.10'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS--		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	6th July 1919	12.27	101.83	114.10	0.20'	...	114.50'	111.20'	
	Rajmahal ...	6th "	15.25	56.319	71.569	0.05'	...	73.36'	70.01'	
	Goalundo ...	6th "	19.60	...	...	0.10'	...	19.90'	20.20'	
Brahmaputra	Gaubati ...	6th "	24.90	148.76	173.66	Steady		173.56'	172.66'	
	Seraiganj ...	6th "	38.60	..	...	...	0.30'	...	...	
	Dibrugarh ...	6th "	19.00	...	...	0.60'	...	...	...	
Meghna	Bhairab Bazar ...	6th "	13.17	1.61	14.78	0.08'	...	...	...	
	Chandpur ...	6th "	10.25	1.61	11.86	...	0.17'	...	...	
	Fenchuganj ...	6th "	21.50	...	...	0.30'	...	...	...	
Dhaleswari	Sabhar ...	6th "	26.40	- 8.62	17.78	0.30'	...	...	...	
Bhagirathi	Swarupganj ...	6th "	8.06	1.509	9.569	1.10'	...	14.78'	10.34'	
Damodar	Edilpur ...	6th "	5.42	92.58	98.00	0.42'	...	...	...	
Lakhya	Narayanganj ...	6th "	19.50	- 5.59	13.91	0.17'	...	...	...	
Madaripur Bil Route	Takerhat ...	6th "	10.20	- 0.599	9.601	0.20'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of rise referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	...	Monghyr ...	...	...	...	...	...	115-10'	111-90'	
	...	Rajmahal ...	...	...	...	0-45'	...	73-91'	70-21'	
	...	Goalundo ...	...	...	...	...	0-30'	19-90'	20-20'	
Brahmaputra	...	Gauhati ...	...	...	...	...	0-10'	173-76'	172-86'	
	...	Serajganj ...	...	...	...	Steady	...	...	...	
	...	Dibrugarh ...	...	...	...	1-50'	...	...	...	
Meghna	...	Bhairab Bazar	...	...	...	0-17'	...	...	...	
	...	Chandpur ...	...	...	...	...	0-08'	...	...	
	...	Fenchuganj ...	...	...	...	0-40'	...	...	...	
Dhaleswari	...	Sabhar ...	...	...	...	...	0-30'	...	...	
Bhagirathi	...	Swarupganj ...	...	...	...	...	0-03'	14-88'	9-73'	
Damodar	...	Edilpur ...	...	...	...	...	0-67'	...	...	The reading at 8 P.M. was 12-33' on gauge.
Lakhya	...	Narayanganj	...	...	...	...	0-08'	...	...	
Madaripur Bil Ronte	...	Takerhat ...	...	...	...	0-10'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	8th July 1919	14.57'	101.83'	116.40'	1.20'	...	115.10'	112.70'	
	Rajmahal ...	8th "	16.40'	56.319'	72.719'	0.70'	...	74.46'	70.61'	
	Goalundo ...	8th "	19.40'	...	...	0.10'	...	20.20'	20.20'	
Brahmaputra	Gauhati ...	8th "	24.60'	148.76'	173.36'	...	0.20'	174.06'	173.06'	
	Serajganj ...	12-24 P.M.	38.80'	...	...	0.20'	...	...	...	
	Dibrugarh ...	8th "	20.50'	...	...	Steady.	...	...	...	
Meghna	Bhairab Bazar ...	8th "	13.42'	1.61'	15.03'	0.08'	...	...	...	
	Chandpur ...	2-30 P.M.	10.17'	1.61'	11.78'	Steady.	...	...	...	
	Fenchuganj ...	8th "	22.10'	...	...	0.20'	...	...	...	
Dhaleswari	Sabhar ...	7 "	26.30'	-8.62'	17.68'	0.20'	...	...	...	
Bhagirathi	Swarupganj ...	8th "	8.20'	1.509'	9.709'	0.17'	...	15.19'	9.13'	
Damodar	Edilpur ...	8th "	12.17'	92.58'	104.75'	7.42'	...	...	...	
Lakhya	Narayanganj ...	8th "	19.42'	-5.59'	13.83'	Steady.	...	...	...	
Madaripur Bil Routs	Takerhat ...	8th "	10.30'	-0.599'	9.701'	Steady.	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	9th July 1919	14.87	101.83	116.79	0.30	...	115.40	113.40	
	... { Rajmahal ...	9th "	17.40	56.319	73.719	1.00	...	74.66	71.66	
	... { Goalundo ...	9th "	19.50	...	...	0.10	...	20.20	20.20	
Brahmaputra	Gauhati ...	9th "	24.80	148.76	173.56	0.20	...	174.16	173.66	
	... { Serajganj ...	9th "	38.90	...	...	0.10	...	...	...	
	... { Dibrugarh ...	9th "	20.00	...	...	...	0.50	...	...	
Meghna	Bhairab Bazar ...	9th "	13.50	1.61	15.11	0.08	...	...	...	
	... { Chandpur ...	9th "	10.67	1.61	12.28	0.50	...	...	...	
	... { Fenchuganj ...	9th "	22.30	...	...	0.20	...	...	...	
Dhaleswari	Sabhar ...	7 "	26.20	- 8.62	17.58	...	0.10	...	...	
Bhagirathi	... Swarupganj ..	6 "	9.90	1.509	11.409	1.70	...	15.28	9.07	
Damodar	... Edilpur ...	6 "	10.25	92.58	102.83	...	1.92	...	...	
Lakhya	... Narayanganj	9th "	19.69	- 5.59	14.10	0.27	...	...	...	
Madaripur Bil Route	Takerhat ...	6 A.M.	10.30	- 0.599	9.701	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 10th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	10th July 1919	6 A.M....	15.47'	101.83'	117.30'	0.60'	...	115.10'	113.90'	
	10th "	6 "	18.40'	56.319'	74.919'	1.20'	...	74.76'	72.51'	
	10th "	8-24 "	19.70'	...	...	0.20'	...	20.40'	20.20'	
Brahmaputra	10th "	8 "	25.60'	148.76'	174.36'	0.80'	...	174.26'	174.16'	
	10th "	12-24 P.M.	38.90'	...	...	steady		...	...	
	10th "	8 A.M....	20.60'	...	...	0.60'	...	...	...	
Meghna	10th "	6-24 "	13.58'	1.61'	15.19'	0.08'	...	...	...	
	10th "	4-15 P.M.	10.92'	1.61'	12.53'	0.25'	...	...	...	
	10th "	7 A.M.	22.50'	...	...	0.20'	...	...	...	
Dhaleswari	10th "	7 "	26.30'	-8.62'	17.68'	0.10'	...	...	...	
	10th "	6 "	10.30'	1.509'	11.809'	0.40'	...	15.31'	9.32'	
Damodar	10th "	6 "	9.08'	92.58'	101.66'	...	1.17'	...	...	
Lakhya	10th "	...	19.75'	-5.59'	14.16'	0.06'	...	...	...	
Madaripur Bil Route	10th "	6 A.M....	10.30'	-0.599'	9.701'	Steady.		...	...	



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 12th July 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	8 4 0	8 6 0	0 3 3	0 3 6
" medium	8 8 0	8 12 0	0 3 6	0 3 9
Patnai, coarse	7 4 0	8 0 0	0 3 3	0 3 6
" medium	8 2 0	8 12 0	0 3 6	0 3 9
Nagra, coarse	7 4 0	8 0 0	0 3 3	0 3 6
" medium	8 2 0	8 13 0	0 3 6	0 3 9
Dudhkalma	8 4 0	8 6 0	0 3 6	.....
Rangoon Boiled	.....	.....	.....	.....
Kajla	7 0 0	.....	0 3 0	.....
Wheat, Dudhia	8 0 0	8 4 0	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 4 0	7 8 0	.....	.....
Gram, Patnai (whole)	7 0 0	7 4 0	0 2 9	0 3 0
" dal	8 8 0	8 12 0	0 3 9	0 4 6
Mung " (Hari)	13 0 0	13 8 0	0 8 0	.....
" " (Krishna)	12 4 0	12 8 0	0 7 0	.....
Arhar	9 0 0	12 0 0	0 4 0	0 5 6
Masur " (split)	7 0 0	7 8 0	0 3 0	0 3 9
" " (Khanri)	9 4 0	9 12 0	0 4 0	.....
Kalai	8 8 0	8 12 0	0 3 6	0 5 0
Salt	5 5 0	5 6 0	0 1 6	.....
Sugar (brown Java)	21 14 0	.....	0 9 0	0 10 0
Gur, Sanchi	8 12 0	9 0 0	0 4 6	.....
" Bheli	.....	.....	0 4 0	.....
Milk	9 0 0	11 0 0	0 3 0	0 5 0
Mustard oil	35 8 0	37 8 0	0 13 0	1 0 0
Flour, country	9 8 0	10 2 0	0 4 6	0 5 6
Atta, No. 3	7 8 0	.....	.....	.....
" " 2½	7 12 0			
" " B	10 3 0			
Suji	9 10 0	10 8 0	0 4 6	0 6 0
Ghee (Bhadwa, Matki, etc.)	84 0 0	85 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	82 0 0	83 0 0	2 4 0	.....
" (Lalli, Etwa, Sagar, etc.)	79 0 0	80 0 0	2 0 0	.....
Maize	5 8 0	6 0 0	.....	.....
Potato	7 0 0	8 4 0	0 3 6	0 4 0
Patal	3 4 0	4 8 0	0 2 0	0 2 6
Brinjal	.....	.....	0 2 0	0 2 6
Onion	3 6 0	8 12 0	0 1 9	0 2 0
Fish, Rahu	20 0 0	25 0 0	0 14 0	0 15 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 4 0

N.B.—This is an abstract at prices at the following markets :—

Wholesale.—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

Retail.—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolia Bazar, Mallick Bazar and Jogu Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 12th July 1919.



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 28th June 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.		A.M.					
22nd June	59.0	16-10	59.65	10-35	58.5	59.4	Flow tide at 10-35 and Ebb tide at 16-30.
23rd "	59.2	17-0	59.65	11-30	58.65	59.65	Flow tide at 11-44 and Ebb tide at 17-10.
24th "	59.5	18-10	59.78	12-12	59.5	59.7	Flow tide at 12-30 and Ebb tide at 18-20.
25th "	59.9	7-0	59.9	13-0	59.7	59.8	Ebb tide at 7-10 and Flow tide at 13-20.
26th "	60.4	8-30	60.6	14-0	60.3	60.5	Ebb tide at 8-40 and Flow tide at 14-15.
27th "	60.5	9-40	60.8	14-55	60.5	60.7	Ebb tide at 9-54 and Flow tide at 15-5.
28th "	61.1	10-30	61.25	15-50	61.1	61.1	Ebb tide at 10-30 and Flow tide at 17.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	Taken at low tide.
13th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.30	
15th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

Dacca,  
The 4th July 1919.W. J. KERR,  
Executive Engr., Dacca Divn.**Statement showing the gauge-readings at Dacca Water-works on the river Buriganga for the week ending the 5th July 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
29th June	61.4	11-10	61.5	...	...	61.5	No fall.
30th "	61.8	...	...	...	...	61.9	Rises.
1st July	62.3	...	...	...	...	62.5	Do.
2nd "	62.7	...	...	...	...	62.7	No fall and no rise.
3rd "	62.7	...	...	...	...	62.7	Disco.
4th "	62.75	...	...	...	...	62.7	
5th "	62.5	...	...	...	...	62.7	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	Taken at low tide.
13th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.30	
15th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

Dacca,  
The 8th July 1919.W. J. KERR,  
Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 5th July 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to corrected datum. (a)	Height of surface above mean sea-level on the same date last year according to corrected datum. (a)	Remarks.
1919.					
29th June ...	8 A.M.	Zero of gauge is at mean sea-level.	49.20	50.81	B. M. on College step corrected 64.93.
30th " ...	8 "		49.50	51.21	
1st July ...	8 "		49.40	51.41	
2nd " ...	8 "		49.10	51.21	
3rd " ...	8 "		48.70	50.81	
4th " ...	8 "		48.50	50.56	
5th " ...	8 "		48.50	50.31	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No.  $\frac{2876}{18-33-17}$ , dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

			Old value.	According to corrected datum		
				(a)		
The previous year	...	Highest water-level	...	66.52 on 30th August 1918	...	61.71
Ditto	...	Lowest	...	41.70 on 21st April 1918	...	36.89
Record	...	Highest	...	69.25 on 26th August 1879	...	61.14
Do.	...	Ditto	...	69.08 on 9th September 1885	...	64.27
Do.	...	Ditto	...	68.30 on 25th August 1906	...	63.47
Do.	...	Ditto	...	68.21 on 26th August 1890	...	63.40
Do.	...	Lowest	...	37.68 on 26th April 1884	...	32.82
Do.	...	Ditto	...	38.18 on 14th—15th April 1883	...	33.82
Do.	...	Ditto	...	39.02 on 21st—22nd April 1897	...	34.21
Do.	...	Ditto	...	39.28 on 6th—7th May 1903	...	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 5th July 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 5th July 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on the same date last year.	Remarks.
1919.					
29th June ...	7 A.M.	22.3	22.3	20.7	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
30th " ...	7 "	19.6	19.6	20.8	
1st July ...	7 "	19.9	19.9	20.7	
2nd " ...	7 "	20.3	20.3	20.6	
3rd " ...	7 "	20.1	20.1	20.5	
4th " ...	7 "	19.8	19.8	20.4	
5th " ...	7 "	19.5	19.5	20.4	

The previous year ...	Highest water-level ...	23.2 on 1st September 1918.
Ditto ...	Lowest " ...	6.8 on 9th March 1913.
Record (H.F. in Brahmaputra and Ganges) ...	Highest " ...	23.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges) ...	Ditto " ...	23.74 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges) ...	Ditto " ...	23.66 on 11th to 17th and 31st August and on 1st to 3rd September 1893.
Record (H.F. in Brahmaputra only) ...	Ditto " ...	23.66 on 31st July 1900.
Do. ...	Lowest " ...	1.0 on 8th February 1914.
Do. ...	Ditto " ...	2.42 on 13th March 1908.
Do. ...	Ditto " ...	2.91 on 21st to 24th, February and 8th to 9th March 1884.
Do. ...	Ditto " ...	3.16 on 9th to 11th March 1885.
Do. ...	Ditto " ...	3.16 on 16th, 17th and 29th to 31st March 1901.

N.B.—The gauge-readings commenced from 3rd October 1900.

FARIDPUR,  
The 5th July 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



IRRIGATION DEPARTMENT, BENGAL.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1919-20.  
Area leased for irrigation up to end of May 1919.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.										RAINFALL, 1919-20.		RAINFALL, 1918-19.	
								Long-term leases.	SEASON LEASES.					Grand Total.	Inches.	During month.	Up to end of month.	Inches.	During month.	Up to end of month.	
									Khamti.	Rohi.	Buraicane.	Hot-weather.	Total.								
																					Acres.
SOUTH-WESTERN	Midnapore	Midnapore	...	1,411	61	10	...	...	62,539	781	...	...	...	781	63,320	8.76	10.38	3.48	4.74		
		Panchkura	...	522	5	4	...	...	6,715	...	...	...	...	...	6,715	5.57	10.15	9.98	14.10		
		Tidal Reaches, Ranges I and II.	...	...	...	...	...	...	...	...	...	...	...	...	...	5.21	10.01	12.57	19.29		
	Burdwan and Hooghly	Total Midnapore Canal	...	...	...	...	...	69,254	781	...	...	...	781	70,035	...	...	...	...	...		
		Total of the corresponding period of last year.	...	...	...	...	...	...	70,916	...	...	...	...	70,916	...	...	...	...	...		
CALCUTTA.	The 15th July 1919.	Eden canal	...	1,000	260	1	...	25	12	13,856	...	16	9	...	25	13,881	5.86	8.08	6.85	9.77	
		Total of the corresponding period of last year.	...	...	...	...	...	...	14,900	...	...	...	12	...	12	14,912	...	...	...	...	
		GRAND TOTAL	...	...	...	...	...	25	12	83,116	781	16	9	...	806	83,916	...	...	...	...	
		GRAND TOTAL OF THE CORRESPONDING PERIOD OF LAST YEAR.	...	...	...	...	...	85,815	...	...	12	...	12	85,828	...	...	...	...	...		

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 5th July 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to corrected datum.(a)	Height of surface above mean sea-level on the same date last year according to corrected datum.(a)	Remarks.
1919.					
29th June	8 A.M.	Zero of gauge is at mean sea-level.	49.20	50.81	B. M. on College step corrected 64.93.
30th "	8 "		49.50	51.21	
1st July	8 "		49.40	51.41	
2nd "	8 "		49.10	51.21	
3rd "	8 "		48.70	50.81	
4th "	8 "		48.50	50.56	
5th "	8 "		48.50	50.31	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. 2476, dated 18-30-17, dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

			Old value.	According to corrected datum (a)
The previous year	...	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	...	Lowest "	41.70 on 21st April 1918	36.89
Record	...	Highest "	69.26 on 26th August 1879	64.44
Do.	...	Ditto "	69.08 on 9th September 1885	64.27
Do.	...	Ditto "	68.30 on 25th August 1906	63.47
Do.	...	Ditto "	68.21 on 26th August 1890	63.40
Do.	...	Lowest "	37.68 on 26th April 1884	32.82
Do.	...	Ditto "	38.13 on 14th-15th April 1883	33.32
Do.	...	Ditto "	39.02 on 21st-22nd April 1897	34.21
Do.	...	Ditto "	39.28 on 6th-7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 5th July 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 5th July 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
29th June	7 A.M.	22.3	22.3	20.7	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
30th "	7 "	19.6	19.6	20.8	
1st July	7 "	19.9	19.9	20.7	
2nd "	7 "	20.3	20.3	20.6	
3rd "	7 "	20.1	20.1	20.5	
4th "	7 "	19.8	19.8	20.4	
5th "	7 "	19.5	19.5	20.4	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest "	...	6.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest "	...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	...	Ditto "	...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto "	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto "	...	25.66 on 31st July 1900.
Do.	...	Lowest "	...	1.0 on 8th February 1914.
Do.	...	Ditto "	...	2.42 on 13th March 1908.
Do.	...	Ditto "	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto "	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto "	...	3.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1900.

FARIDPUR,  
The 5th July 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



IRRIGATION DEPARTMENT, BENGAL.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1918-20.

Area leased for irrigation up to end of May 1919.

Circles.	District.	Canal.	Estimated full discharge.	Average discharge in month.	C. ft.	G. ft.	C. ft.	U. ft.	Acres.	Approximate area of land irrigated during the year up to the end of the month.	Acres.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.						RAINFALL, 1918-20.		RAINFALL, 1919-20.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
													Long-term leases.					SEASON LEASES.					Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SOUTH-WESTERN	Midnapore {	Midnapore ...	...	1,411	61	10	...	...	62,539	781	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</

G. J. ST. C. SEIXLEY,  
Under-Secy. to the Govt. of Bengal.

CALCUTTA,  
The 15th July 1919.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 12th July 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 12TH JULY 1919.			WEEK ENDING SATURDAY, THE 12TH JULY 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	391	51,835	847	468	58,767	1,013
Jute ...	38	25,563 <sup>o</sup>	225	85	71,921 <sup>†</sup>	591
Firewood ...	31	13,675	193	146	82,075	1,302
Other articles ...	661	200,394	2,079	868	244,258	2,799
Total ...	1,121	291,467	3,344	1,567	457,021	5,705
Empty boats and rafts ...	422	...	2,898	527	...	791
GRAND TOTAL ..	1,543	291,467	6,242	2,094	457,021	6,496

Mds.  
29,503

<sup>o</sup> Weight by canal measurement ... .. 76,980

<sup>†</sup> Ditto ditto ... ..

CALCUTTA,  
The 15th July 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.





# The Calcutta Gazette

WEDNESDAY, JULY 23, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING THE 12th JULY 1919.

RAINFALL was general during the week, but more rain is wanted for transplantation. Seventy-six relief-works were open during the week. The number of persons relieved on works was 4,279. The number of persons in receipt of gratuitous relief was 20,278, viz., 15,237 on cash doles in 115 unions, 3,651 on paddy-husking advances, 853 weavers and 537 better class poor. The total number of persons relieved was 24,557. The decrease in the number of persons on relief-works was due to rain and agricultural operations. Some works are being closed. The number of persons relieved on private works was 1,733. Also four charitable societies relieved 1,615 other persons by rice doles. Theft of food-grains and petty dacoities attributable to distress are increasing. The physical condition of workers and public health are good. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5<sup>5</sup>/<sub>16</sub> to 5<sup>1</sup>/<sub>4</sub> seers per rupee.

M. C. MCALPIN,

Secy. to the Govt. of Bengal.

DACCA, the 21st July 1919.



**RESOLUTION REGARDING ELECTION AND APPOINTMENT  
OF HOOGHLY-CHINSURA MUNICIPALITY.**

**GOVERNMENT OF BENGAL.**

**MUNICIPAL DEPARTMENT.**

*Municipal.*

**CALCUTTA, THE 17TH JULY 1919.**

**RESOLUTION No. 1946M.**

In Resolution No. 704T.M., dated the 4th October 1918, the Commissioners of the Hooghly-Chinsurah Municipality were superseded for a period of one year, under section 65 of the Bengal Municipal Act, for persistent default in the performance of their duties. The period of supersession will expire on the 8th October next and the Governor in Council is pleased to announce that on the expiration of the period the Municipality will be reconstituted by election and appointment, and have the privilege of electing its own Chairman.

By order of the Governor in Council,

**S. W. GOODE,**

*Offg. Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE REPORT OF THE DEPARTMENT OF  
FISHERIES, BENGAL AND BIHAR AND ORISSA, FOR THE  
YEAR ENDING THE 31ST MARCH 1919.**

**GOVERNMENT OF BENGAL.**

**REVENUE DEPARTMENT.**

**Fishery Branch.**

DACCA, THE 21ST JULY 1919.

RESOLUTION No. 834T.R.

READ—

The Report of the Department of Fisheries, Bengal and Bihar and Orissa, for the year ending the 31st March 1919.

MR. SOUTHWELL held charge of the Department till the 24th December 1918, when, owing to a breakdown in health, he went on combined leave for fifteen months, leaving charge of his office to Dr. Baini Prasad, Superintendent of Fisheries.

2. During the year under review an experimental change was made in the organisation of the Department. In order to decentralize the work and to bring the Department into closer touch with organised private enterprise it was suggested that a district fishery officer should be attached to each district. An experiment was accordingly inaugurated at the end of the year by the appointment of three district fishery officers. Their main duties will ultimately be to make a complete survey of the districts allotted to them from the fishery point of view; to keep themselves in touch with fishermen and owners of fisheries; to initiate co-operative societies amongst fishermen; to replenish fisheries, both Government and public; and to facilitate the work of export and import. This list is a comprehensive one and contains duties which in the present state of the fisheries and the condition of the fishermen of the province are by no means a sinecure if properly performed.

3. The investigations of the Department into the habits of fish and the experiments in breeding proceeded on the same lines as in previous years. The *hilsa* investigations as usual occupied a prominent place, but the season was unfavourable for useful work on account of the erratic nature of the monsoon. The monsoon was also responsible for a shortage of the quantity of carp fry available for distribution, but it is satisfactory to note that reports from the previous year's purchasers of fry show that the distribution has so far attained a fair result. An experiment was made in curing and preserving *bhekti* and other fish for the Calcutta market, but, apart from the paucity of demand for such preserved fish amongst the Indian population in Calcutta, such an experiment can only be financially successful if the curing and drying operations are carried on where the fish is caught in large quantities. In this connection it is interesting to note that a smoking factory has been established at Tamluk and, on the advice of the Fishery Department, remodelled. The experiment the Director of Fisheries proposes to undertake for the culture of fresh-water mussels in some of the Dacca experimental tanks will be watched with interest in view of the want of raw material for buttons.

4. Twelve new co-operative societies of fishermen were established during the year, 8 in Bengal and 4 in Bihar and Orissa; the total number is now 27. These societies were mainly established by the efforts of



the department of co-operative credit, but it is expected that in future the district fishery officers will be able to take a more active part in the establishment of such societies.

5. The statistics of fish traffic into Calcutta during the year under report (306,037 maunds) show an increase of imports over the past 4 years, except the year 1917, when 317,146 maunds were imported.

6. The problems which have to be solved by the Department are difficult and will require time for their investigation. The public are primarily interested in the cheapness of fish as an article of diet; but the close combine which controls the sale of fish in Bengal and the indiscriminate destruction of fry are the two main obstacles with which the Department is confronted in its efforts to ameliorate the situation. With the appointment of the proposed district fishery officers something may be done to rouse a more popular interest in the problems of the Department as well as to come into close touch with the industries, but it is necessary to proceed slowly and to learn by experience. In the present report there are various references as to the manner in which the Department can further be developed, for example by the establishment of centres for investigation in the culture of carp. The Industrial Commission has also indicated that the Fishery Department in Bengal should be more fully developed. All these are projects which will involve a considerable financial outlay, and they will be considered in due course when Mr. Southwell returns from leave.

7. The Governor in Council has much pleasure in acknowledging the good services of Mr. Southwell, Dr. Bainsi Prasad and their assistants.

By order of the Governor in Council,

M. C. McALPIN,

*Secy. to the Govt. of Bengal.*



### MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR JUNE 1919.

1. **Character of the Season.**—During the month the rainfall was below the normal in all the districts excepting in the 24-Pargannas, Khulna, Midnapore, Howrah, Jalpaiguri, Darjeeling, Rangpur, Malda, Bakarganj, Chittagong, Noakhali and the Cooch Behar State. The usual rainfall statement is appended.

2. **Progress of Agricultural Operations.**—The harvesting of jute and autumn paddy commenced in the lower lying tracts of some of the eastern districts. The preparation of lands for the winter rice crop made favourable progress. More rain was needed for the transplanting operation.

3. **State of Standing Crops.**—The condition of jute and autumn paddy and other standing crops was, on the whole, satisfactory.

4. **Prospects and Probable Outturn.**—Prospects of various autumn crops and deep-water winter paddy were generally hopeful.

5. **Damage to Standing Crops.**—No crop reported to have suffered any damage.

6. **Condition of Agricultural Stock.**—Cattle disease was reported from places in the districts of Midnapore, Dacca, Tippera and Murshidabad.

7. **Failure of Pasturage and Fodder.**—The supply of fodder was sufficient.

8. **Prices of Food-grains.**—During the second fortnight of the month under review, the prices of the cheapest variety of rice rose in 6 districts, fell in 10, and remained stationary in the rest. It varied from 4 seers 14 chitaks a rupee in the Noakhali to 6 seers and 4 chitaks in the Jessore district.

9. **Condition of Agricultural People.**—Distress continued to prevail in the Brahmanbaria subdivision of the Tippera district. Relief measures are being taken.

J. C. ROY,

for Director of Agriculture, Bengal.

DACCA, the 21st July 1919.

**Statement showing the normal and actual rainfall in each district during June 1919.**

Division.	District.	Normal district rainfall for the month of June.	Actual district rainfall for the month of June 1919.	Variation from the normal.	Division.	District.	Normal district rainfall for the month of June.	Actual district rainfall for the month of June 1919.	Variation from the normal.
		Inches.	Inches.	Inches.			Inches.	Inches.	Inches.
Presidency	24-Pargannas	11.25	15.73	+4.48	Rajshahi— concl.	Rangpur	16.96	17.29	+0.33
	Calcutta	11.63	13.94	+2.31		Bogra	12.73	8.33	-4.40
	Nadia	9.45	8.99	-0.46		Pabna	11.57	7.08	-4.49
	Murshidabad	10.48	9.71	-0.77		Malda	10.84	12.31	+1.47
	Jessore	11.74	9.61	-2.13	Dacca	Dacca	14.43	6.68	-7.75
Burdwan	Khulna	13.83	13.28	-0.55		Mymensingh	17.80	14.90	-2.90
	Burdwan	10.78	8.11	-2.67		Faridpur	16.03	10.77	-5.26
	Birbhum	10.42	8.55	-1.87		Bakerganj	18.18	18.55	+0.37
	Bankura	9.76	9.73	-0.03	Chittagong	Chittagong	22.52	24.24	+1.72
	Midnapore	11.35	16.73	+5.38		Tippera	16.05	12.95	-3.10
Rajshahi	Howrah	9.93	9.01	-0.92		Noakhali	21.18	24.90	+3.72
	Rajshahi	11.06	10.43	-0.63		Chittagong Hill Tracts	16.11	14.16	-1.95
	Dinajpur	14.65	13.98	-0.67		Cooch Behar	27.60	28.73	+1.13
	Jalpaiguri	27.08	30.15	+3.07					
	Darjeeling	23.41	28.24	+4.83					



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 17th July 1919.

**Summary.**—During the week moderate to heavy rain fell throughout the province. Reaping of autumn paddy, cutting, steeping and washing of jute continue in the low-lying tracts of Eastern Bengal. Transplanting of winter paddy is progressing briskly. Prospects of standing crops are generally reported to be satisfactory. Damage to jute by insects is reported from parts of West Bengal. The average price of common rice for the province has risen by about 1.66 per cent. as compared with that of the previous week. The average number of persons engaged daily on test works in the Brahmanbaria subdivision of Tippera was 1,248.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER MUPH.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	4.80	5½	5½	Transplanting of <i>aman</i> paddy continues. Fodder and water are sufficient. Condition and prospects of jute are good. A fair progress has been made in cultivation.
	Diamond Harbour.	7.57	5½	5½	
	Barrackpore	4.37	5	5½	
	Barasat ...	2.14	5½	5½	
	Basirhat ...	9.97	6½	6½	
2	NADIA ...	2.43	5½	5½	Prospects of <i>aus</i> paddy are good and those of jute fair. Harvesting of <i>aus</i> paddy has commenced. Effects of weather are favourable to jute. Some damage to jute has been done by insect-pests. Weeding is nearly completed. Transplanting of <i>aman</i> paddy has commenced.
	Knshtia ...	1.70	5	(n)	
	Meherpur ...	1.17	6½	(n)	
	Chuadanga ...	4.31	6	6	
	Raunghat ...	2.63	5½	5½	
3	MURSHIDABAD	1.90	5½	5½	Weather cloudy. Prospects of standing crops are fair. Transplanting of winter paddy continues. Condition and prospects of jute are fair. Effects of weather are favourable to jute. Some damage by insect pests is reported from some parts of Lalbagh subdivision. Weeding is in progress. Cattle-disease is reported from Mirzapur in Jangipur and Sagardighi in Lalbagh subdivisions. Fodder is sufficient.
	Lalbagh ...	1.59	5½	5½	
	Jangipur ...	1.07	5½	5½	
	Kandi ...	4.07	5½	5½	
4	JESSORE ...	6.56	6	6	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy have commenced. Standing crops are doing well. Condition and prospects of jute are fair. Slight damage to jute by insect-pests is reported from Jhenidah, Narail and Magura subdivisions. Fodder is sufficient.
	Jhenidah ...	2.98	7	6½	
	Magura ...	3.47	6	5	
	Narail ...	6.37	5½	5½	
	Bangaon ...	6.04	6	6	
5	KHULNA ...	4.06	5½	5½	Transplantation of <i>aman</i> paddy is going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cultivation is over. Fodder and water are sufficient. Cattle-disease is reported from Rampal thana.
	Satkhira ...	10.86	6	6	
	Bagerhat ...	2.56	5½	5½	

(n) Not reported.



Serial No.	Districts and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	1.76	5½	5½	Weather rainy. Transplanting of <i>aman</i> paddy is progressing in Kalna, Katwa and Asansol subdivisions but is making little progress in the Sadar subdivision for want of sufficient rain. Sufficient rainfall. Jute, <i>aus</i> paddy and sugarcane are doing well. Prices continue high.
	Asansol ...	4.41	4½	5	
	Katwa ...	1.28	5½	5½	
	Kalna ...	3.57	5½	(n)	
7	BIRBHUM ...	3.00.	5½	5½	Transplantation continues. More rain is wanted in Rampurhat subdivision. Standing crops are doing well. Fodder and water are sufficient.
	Rampurhat	1.42	5½	5½	
8	BANKURA ...	3.97	5½	5½	Transplantation of paddy is going on. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	2.00	5½	5½	
9	MIDNAPORE	2.31	5½	5 to 5½	Transplantation of winter rice continues. The jute crop has been slightly damaged in Tamluk subdivision by excessive rainfall, elsewhere condition and prospects are good. Condition of sugarcane, <i>til</i> and sunn-hemp is satisfactory.
	Ghatal ...	3.92	5½	5½	
	Tamluk ...	4.97	6½	5 to 6	
	Contai ...	1.82	6½	6 to 6½	
10	HOOGHLY ...	3.42	4½	4½	Condition and prospects of jute are unfavourable; the effects of weather on the growth of the crops are unfavourable owing to heavy rain. Damage by insect-pests is reported from Haripal and Balagar thanas. Cultivation is completed. Fodder is sufficient. Price of rice is steady. Cattle-disease is reported from Polba thana.
	Serampore ...	2.80	5½	5½	
	Arambagh ...	(n)	(n)	(n)	
11	HOWRAH ...	2.71	5½	5½	Weather cloudy. Effects of weather are favourable to jute. Condition of jute is fair and that of sugarcane is good. Transplanting of winter paddy continues. Fodder is sufficient. No damage done to jute.
	Ulubaria ...	3.54	5½	5½	
12	RAJSHAH (RAMPUR-BOALIA).	2.92	5	5	The prospects of jute and other standing crops are favourable. Harvesting of jute has begun in the Naogaon subdivision. Damage by insects is reported from Nator police-station. Fodder is sufficient.
	Naogaon ...	5.17	5½	5½	
	Nator ...	1.64	4½	4½	
13	DINAJPUR ...	4.63	5½	5½	Weather is favourable to the standing <i>bhadoi</i> paddy and jute crops. Prospects are fair. No damage done to jute. Harvesting has begun in low lands. Fodder is sufficient.
	Thakurgaon	5.29	6	6	
	Balurghat ...	5.86	5½	5½	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
14	JALPAIGURI	6.54	5½	5½	Condition and prospects of standing crops are fair. Effects of weather are favourable to jute and <i>bhadoi</i> paddy. No damage done to jute. Fodder is sufficient.
	Alipur ...	11.47	5	5	
15	DARJEELING	7.94	4½	4½	Harvesting of potatoes continues. Cardamoms and maize are progressing well. Standing crops are in good condition. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Harvesting has begun. Transplanting of autumn paddy, <i>marua</i> and millet is in progress. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	14.48	4½	5	
	Siliguri ...	15.27	4½	4½	
	Kalimpong ...	4.78	5½	5	
16	RANGPUR ...	2.73	5	5	Weather seasonable and its effects are favourable to jute. Cutting, steeping and washing of jute have commenced in certain places. No damage done to jute. Harvesting of <i>aus</i> paddy is in progress. Transplantation of winter rice is going on. Condition and prospects of jute are good. Fodder and water are sufficient. The export of rice is still going on.
	Nilphamari	4.24	5	5½	
	Kurigram ...	(n)	(n)	(n)	
	Gaibandha ...	8.28	5	5	
17	BOGRA ...	3.92	5	5½	Harvesting of <i>aus</i> paddy and steeping of jute continue. Prospects of jute are fair. Preparation of lands for transplanted winter paddy is going on. Fodder is insufficient in flooded area.
18	PABNA ...	2.97	5	5½	Prospects of jute and paddy are good. Reaping of jute has begun in some parts. Fodder is sufficient.
	Sirajganj ..	5.87	4½	4½	
19	MALDA ..	7.81	5½	5½	Weather seasonable. Cultivation of winter paddy continues. Prospects of jute are fair. No damage to crop is reported. Fodder and water are sufficient. Cattle-disease is reported from Shibganj, Gomostapur, Bholahat and Englishbazar thanas.
20	COOCH BEHAR	8.64	6½	6½	Weather cloudy and rainy. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for winter paddy and transplantation of seedlings are in progress. Prospects and condition of jute and effects of weather on its growth are favourable. Cutting has commenced at places. Fodder is sufficient.
21	DACCA ...	4.50	5	5½	Weather seasonable. Condition and prospects of jute are fair. Harvesting of jute is in progress. Transplanting of <i>aman</i> paddy has commenced in the Sadar subdivision.
	Manikganj ...	(n)	(n)	4½	
	Narayanganj	2.98	5	5½	
	Munshiganj*	5.48	4½	5½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN RUPEES PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
22	<b>MYMENSINGH</b>	Inches 3.77	4½	5½	Weather sultry with occasional downpour. Transplantation of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Prospects of standing crops are good. Condition and prospects of jute are fair. No damage is reported. Fodder and water are sufficient.
	Jamalpur ...	3.13	4½	4½	
	Tangail ...	(n)	(n)	(n)	
	Netrakona ...	3.29	5½	5½	
	Kishorganj...	9.32	5	5	
23	<b>FARIDPUR ...</b>	4.83	5	5½	Jute crop has been very slightly damaged by insects in Goalundo subdivision. Harvesting of jute and <i>aus</i> paddy has commenced. Prospects and condition of jute and <i>bhadoi</i> paddy are good. Fodder is sufficient. Prices are rising.
	Goalundo ...	3.21	5½	5½	
	Madaripur ...	3.70	5	5½	
	Gopalganj*...	2.85	5	6½	
24	<b>BAKARGANJ (BARISAL).</b>	5.83	5	5	Prospects of standing crops are fair. Cattle-disease is reported from Matbaria in Pirojpur thana. Weather is favourable to jute. No damage done to the crop. Harvesting has not commenced. Fodder is sufficient.
	Pirojpur ...	4.08	5½	5½	
	Patuakhali...	5.11	5½	5½	
	Dakshin Shabazpur (Bhola).	3.30	5	5	
25	<b>CHITTAGONG</b>	8.98	5½	5½	Prospects of standing crops are fair. Transplantation of <i>bhadoi</i> paddy is going on. <i>Panga</i> salt is selling at 11 and 9 seers per rupee at Sadar and Cox's Bazar respectively. Fodder is sufficient.
	Cox's Bazar	11.93	5½	3½	
26	<b>TIPPERA (COMILLA).</b>	6.47	4½	5	Weather rainy. The prospects of <i>aus</i> paddy are fair and those of jute are good. Harvesting of jute has commenced: 1,111 men, 55 women and 82 children worked daily on an average in test works in Brahmanbaria subdivision. Rinderpest reported from Brahmanbaria subdivision.
	Brahmanbaria.	1.97	5½	5½	
	Chandpur ...	4.37	4½	4½	
27	<b>NOAKHALI ...</b>	7.07	4½	4½	Weather seasonable. Prospects of standing crops other than jute are good. Prospects of jute are fair in the Sadar subdivision and good in the Feni subdivision. The growth of the crop in the Sadar subdivision has been somewhat stunted by the sudden heavy rains after continued drought. Harvesting has commenced on a small scale. Fodder sufficient.
	Feni ...	6.36	4½	5½	
28	<b>CHITTAGONG HILL TRACTS.</b>	4.07	5	5	Prospects of <i>jhum</i> crops are good. Plough cultivation is proceeding. Fodder is sufficient.

\* The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
† Rangoon rice.

J. C. ROY.

for Director of Agriculture, Bengal.

Dacca, the 21st July 1919.



Division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Parganas.	24-Parganas.	Rangor Island...	0'37	0'08	...	...	2'30	1'29	2'58	2'34	1'34	0'33	0'30	0'36	0'16	0'06	0'04	...	...	3'59	0'65	0'42
		Diamond Harbour.	0'49	...	...	...	1'31	4'31	4'27	2'32	2'24	2'09	1'19	0'73	0'35	...	...	...	...	0'19	0'39	...
		Bridge-Roads...	...	...	...	...	0'40	0'77	2'50	2'30	1'02	0'70	1'30	0'45	0'63	0'08	0'03	0'20	...	0'49	1'30	0'37
		Canning Town...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore...	0'03	...	...	...	0'09	0'45	2'00	1'41	2'32	1'14	1'35	0'31	0'12	0'08	...	0'10	0'22	0'01	1'18	0'38
		Barrackpore...	...	...	...	...	0'06	1'02	1'22	1'37	0'81	0'63	0'81	0'02	0'13	0'11	...	0'10	0'04	1'08	0'38	...
		Dum-Dum...	0'08	...	...	...	0'10	1'06	0'95	2'00	2'50	1'30	1'35	0'39	0'31	...	...	0'20	0'70	2'30	0'55	0'42
		Barnett...	0'10	...	...	...	3'59	0'55	1'45	1'10	1'78	0'67	0'92	0'36	0'31	0'18	0'06	...	...	0'07	0'55	0'42
		Baithat...	0'30	...	...	...	...	0'80	0'60	2'50	0'40	0'61	1'40	0'43	0'75	0'08	...	1'33	...	...	0'36	1'23
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Medinipur.	Medinipur.	Ranaghat...	0'14	...	...	...	...	0'19	0'34	0'36	1'05	0'61	0'42	...	0'26	...	...	...	...	0'25	1'67	...
		Krishnagar...	0'30	...	...	...	...	0'43	0'58	0'31	0'27	0'15	0'27	0'13	0'17	0'08	...	...	...	0'09	0'31	0'08
		Chudanga...	0'11	...	...	...	0'04	0'09	0'37	0'20	0'41	0'18	0'14	0'12	0'48	0'08	...	...	0'07	0'07	0'11	0'26
		Melurpur...	0'03	...	...	...	...	0'22	...	1'33	0'36	0'40	0'20	0'87	0'23	...	...	...	0'10	...	0'36	0'27
		Kuendia...	0'30	...	...	...	0'01	...	0'15	0'03	0'23	0'08	0'10	0'23	0'07	0'09	...	...	...	0'07	0'27	0'23
		Haringhata...	0'16	...	...	...	...	0'78	0'16	...	...	0'55	0'58	0'08	...	...	...	...	...	...	...	1'00
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Murshidabad.	Murshidabad.	Kandi...	...	...	...	...	...	0'17	0'37	0'22	0'15	0'68	0'33	0'22	...	...	...	...	...	0'60	0'40	...
		Berhampore...	1'13	...	...	...	...	0'37	0'30	0'44	0'43	0'29	1'10	0'30	0'34	...	...	...	...	0'63	1'32	...
		Lalbahar...	0'38	...	...	...	...	1'08	0'08	1'01	0'53	0'49	0'44	0'29	0'34	...	...	...	...	0'63	1'32	...

• Return not received.



## BENGAL FOR THE MONTH OF JUNE 1919.

21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st March up to 31st May 1919.	Normal rainfall from 1st March up to 31st May.	Station.	DISTRICT.	DIVISION.
0.03	0.04	...	...	...	0.04	0.05	0.06	0.09	...	14	12.1	18.65	10.75	3.89	18.55	10.75	Saugor Island ...	24-Marganess	PRESIDENT.
0.19	...	...	...	...	1.18	0.52	0.47	...	0.42	17	11.8	25.59	11.03	6.81	25.59	11.03	Diamond Harbour.		
0.20	0.16	0.70	...	0.12	0.05	0.10	0.10	0.10	...	30	12.3	14.63	12.23	3.50	14.63	12.23	Budge-Budge.		
0.24	0.06	0.30	...	0.09	0.04	...	0.30	...	0.01	15	12.9	12.94	11.63	1.32	12.94	11.63	Canning Town.		
0.33	0.03	0.30	...	...	...	1.19	...	...	0.04	15	12.7	10.61	10.48	1.27	10.61	10.48	Alipore.		
0.26	...	0.30	...	...	1.18	0.30	...	...	0.05	15	12.0	15.80	11.31	2.55	15.80	11.31	Barrackpore.		
0.06	...	0.08	...	...	0.75	...	0.45	...	...	15	12.6	14.39	10.38	2.09	14.39	10.38	Dum-Dum.		
0.09	...	...	0.06	...	...	0.18	...	...	...	25	13.0	10.37	11.71	3.65	10.37	11.71	Barasat.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Basirhat.		
1.44	...	0.83	...	...	...	0.75	...	...	...	12	12.4	8.35	9.72	1.67	8.35	9.72	Ranaghat ...	Nadia	PRESIDENT.
1.82	...	0.27	...	...	0.25	0.11	...	...	0.33	15	12.6	6.10	10.01	0.56	6.10	10.01	Krishnagar.		
1.56	0.38	...	...	...	0.60	0.42	0.08	...	...	14	13.0	6.73	10.41	1.55	6.73	10.41	Chandanga.		
2.25	...	...	...	...	0.48	...	...	...	...	12	12.9	7.59	10.22	1.23	7.59	10.22	Meherpore.		
0.65	...	...	...	...	0.08	0.16	0.15	...	...	10	13.7	3.84	11.21	0.67	3.84	11.21	Kushtia.		
...	...	...	...	...	0.48	0.60	...	...	...	8	9.9	4.61	7.44	1.00	4.61	7.44	Haringhata.		
0.63	0.04	...	...	3.41	...	...	1.11	...	...	11	12.7	7.93	10.47	3.41	7.93	10.47	Kandi	Murshidabad.	
0.57	1.22	...	...	1.21	...	0.14	...	...	...	17	12.2	10.30	9.89	1.29	10.30	9.89	Berhampore.		
1.80	0.76	...	...	3.80	0.03	0.76	...	...	0.45	15	11.2	12.61	10.30	2.80	12.61	10.30	Lalbagh.		
0.31	...	...	...	...	...	0.20	...	...	0.02	15	12.0	12.70	10.30	4.00	12.70	10.30	Azinganj.		
0.93	0.32	...	...	...	...	...	...	...	...	14	12.0	7.54	10.12	1.20	7.54	10.12	Jagpur.		PRESIDENT.
0.36	...	...	...	1.70	...	0.18	...	...	0.12	17	11.7	8.66	10.07	1.75	8.66	10.07	Lalga.		
0.92	0.39	...	...	...	1.91	0.19	0.06	...	...	14	12.1	11.27	11.85	2.97	11.27	11.85	Akranj.		
1.63	...	...	...	...	0.83	...	...	...	...	10	10.8	5.27	9.69	1.63	5.27	9.69	Patabari.		
0.47	...	...	...	...	...	...	...	...	...	11	12.1	7.96	10.48	1.61	7.96	10.48	Dumkal.		
0.35	0.45	...	...	...	...	0.10	0.05	0.21	...	15	11.6	11.97	12.02	3.09	11.97	12.02	Kallyanganj.		
0.04	...	0.12	...	...	0.04	0.20	...	0.81	...	15	14.0	9.84	11.89	2.56	9.84	11.89	Narail	Jessore	PRESIDENT.
0.08	...	0.08	...	...	0.45	...	...	...	...	12	14.4	9.52	12.85	2.74	9.52	12.85	Jessore.		
0.02	0.09	...	...	...	0.58	0.63	0.60	0.07	0.08	15	14.1	10.88	12.35	1.70	10.88	12.35	Jhenida.		
0.03	...	0.03	...	...	0.13	0.37	0.08	...	...	15	14.0	8.81	11.64	0.77	8.81	11.64	Magura.		
...	...	...	...	...	0.05	0.38	0.08	...	...	12	13.1	12.01	10.49	2.08	12.01	10.49	Bongaon.		
...	0.04	...	...	...	0.23	...	...	...	...	11	13.8	9.10	11.86	1.53	9.10	11.86	Satkha.	Khulna	PRESIDENT.
0.40	0.30	...	...	...	0.83	...	0.60	0.10	...	14	13.6	11.68	14.27	2.16	11.68	14.27	Bagerhat.		
...	...	...	...	...	...	...	0.14	0.07	...	16	13.3	15.80	12.70	2.45	15.80	12.70	Khulna.		
...	...	...	...	...	...	...	0.30	...	0.50	16	12.6	15.92	12.36	3.50	15.92	12.36	Kaliganj.		
0.60	...	...	...	...	...	...	...	...	...	12	12.7	16.03	12.86	4.05	16.03	12.86	Nakipur.		
0.92	...	...	...	...	...	0.06	...	...	...	17	12.8	14.35	12.31	2.80	14.35	12.31	Dumoria.		
0.80	...	...	...	...	0.09	...	...	0.18	0.07	14	12.7	11.93	12.58	2.10	11.93	12.58	Rampal.		
...	...	...	...	...	0.10	0.13	...	...	...	15	12.8	11.95	10.93	1.82	11.95	10.93	Kalmar.		
0.17	...	...	...	...	0.15	...	...	0.06	...	15	12.9	10.81	12.01	1.82	10.81	12.01	Palkhola.		
0.40	0.16	0.22	...	...	0.06	0.08	0.28	...	...	15	13.4	11.31	14.53	2.40	11.31	14.53	Mollahat.		PRESIDENT.
0.65	0.30	0.45	...	...	...	0.70	...	...	...	17	15.4	19.49	15.18	3.86	19.49	15.18	Morehadi.		
0.39	...	0.06	...	...	...	0.08	...	0.45	0.45	15	12.7	10.83	11.22	1.69	10.83	11.22	Tala.		
0.10	...	...	...	...	0.20	...	...	...	0.50	15	11.5	10.40	10.18	1.30	10.40	10.18	Kalna	Purdwan	PRESIDENT.
0.64	...	0.30	...	...	0.07	0.15	...	...	0.06	11	12.5	7.31	9.68	1.51	7.31	9.68	Burdwan.		
2.23	...	...	...	...	0.28	...	...	...	...	15	11.7	7.95	10.01	2.43	7.95	10.01	Kutwa.		
1.50	0.01	...	...	...	...	...	...	0.01	...	13	12.2	12.11	9.68	3.36	12.11	9.68	Asansol.		
0.55	...	...	...	...	...	...	...	...	0.25	9	10.7	4.61	9.40	1.15	4.61	9.40	Manik.		
...	...	...	...	...	...	...	...	...	...	9	12.7	6.30	15.00	1.50	6.30	15.00	Mangalkot.		
0.04	...	0.30	...	...	0.01	0.28	...	...	...	19	(n)	9.47	(n)	2.55	9.47	(n)	Royra.		
...	...	...	...	...	...	0.70	...	0.48	0.11	13	(n)	6.97	(n)	0.95	6.97	(n)	Monteswar.		
1.00	...	...	...	...	...	...	0.20	...	...	13	12.0	7.33	10.65	1.47	7.33	10.65	Suri	Birbhum	PRESIDENT.
2.26	...	...	...	...	0.14	...	0.76	...	...	11	12.3	8.98	10.31	2.35	8.98	10.31	Hetampur.		
0.86	...	...	...	...	0.72	...	...	...	...	12	11.7	7.51	10.43	1.85	7.51	10.43	Hampurhat.		
2.50	...	...	...	...	...	...	...	...	...	5	11.4	6.72	9.18	2.50	6.72	9.18	Balpur.		
...	1.30	...	...	...	...	...	...	...	...	11	12.4	15.82	11.85	1.90	15.82	11.85	Murali.		
1.73	...	...	...	...	0.06	...	0.31	...	...	12	12.1	5.93	10.09	1.88	5.93	10.09	Lalpur.		
1.30	0.12	...	...	...	...	...	...	0.06	...	12	11.9	18.04	10.11	4.70	18.04	10.11	Bankura	Bankura	PRESIDENT.
0.78	...	...	...	...	...	...	...	...	...	12	11.5	...	9.94	...	...	...	Vishnupur.		
1.19	...	...	...	...	...	0.49	...	...	...	12	11.9	8.65	9.71	2.11	8.65	9.71	Mallara.		
0.30	...	...	...	...	...	0.01	...	...	...	10	12.3	12.35	10.84	4.20	12.35	10.84	Khatra.		
0.33	...	...	...	...	...	0.03	...	...	...	11	11.6	8.61	9.13	2.65	8.61	9.13	Ludra.		
0.33	...	...	...	...	...	...	...	...	...	11	10.7	5.40	9.96	1.71	5.40	9.96	Kotalpur.		
0.30	0.07	...	...	...	...	0.23	...	...	...	10	10.4	10.42	8.12	4.10	10.42	8.12	Onda.		
0.30	...	...	...	...	...	...	0.17	...	0.23	12	11.1	8.55	10.38	2.22	8.55	10.38	Gangajalghati.		
0.20	...	...	...	...	...	...	...	...	...	12	11.4	9.23	10.04	2.93	9.23	10.04	Itampur.		
0.60	...	...	...	...	0.20	...	...	...	0.40	8	(n)	8.23	(n)	2.68	8.23	(n)	Sonamukhi.		PRESIDENT.
1.63	...	...	...	...	...	0.01	...	...	...	11	(n)	11.47	(n)	3.03	11.47	(n)	Taldanga.		
...	...	...	...	...	...	...	...	...	...	11	(n)	...	(n)	...	...	(n)	Sargaha.		
...	...	...	...	...	...	...	...	...	...	11	(n)	...	(n)	...	...	(n)	Indpur.		
...	...	...	...	...	...	...	...	...	...	11	(n)	...	(n)	...	...	(n)	Achra.		
...	...	...	...	...	...	...	...	...	...	11	(n)	...	(n)	...	...	(n)	Burja.		
...	...	...	...	...	...	...	...	...	...	9	(n)	8.29	(n)	2.50	8.29	(n)	Simlapal.		
1.13	...	...	...	...	...	...	...	...	...	11	(n)	6.99	(n)	1.55	6.99	(n)	Siromonpur.		
1.55	...	...	...	...	...	...	...	...	0.03	6	(n)	3.21	(n)	1.80	3.21	(n)	Palsadaya.		
...	...	...	...	...	...	...	...	...	...	13	(n)	7.61	(n)	3.23	7.61	(n)	Chatus.		PRESIDENT.
0.52	...	...	...	...	...	0.60	...	...	0.30	4	(n)	6.18	(n)	4.10	6.18	(n)	Rautbandh.		
0.08	...	...	...	...	...	...	...	...	...	10	(n)	8.84	(n)	3.95	8.84	(n)	Saltora.		
1.15	...	...	...	...	...	...	...	...	...	12	(n)	8.49	(n)	2.19	8.49	(n)	Joypur.		
0.22	...	...	...	...	...	0.44	...	...	...	12	(n)	...	(n)	...	...	(n)	Ambikabagar.		

(n) Not ascertained.



## DAILY RAINFALL RECORDED IN

Division

District

Station

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Burdwan-cum-Bahar

Midnapore

Contai	0.11				0.77	5.10	2.22	4.60	4.24	0.86	0.15		0.03						0.22	0.27	0.23
Tamluk					0.68	2.79	2.75	2.09	0.18	1.54	0.45	0.03			0.03			0.22	1.42	1.62	
Midnapore	0.27					0.21	0.22	2.60	1.94	0.13					0.08			0.42	0.46	1.23	
Chital						0.16	2.57	1.11	0.85		0.70						0.21		0.62	0.55	
Kukrahati						0.98	2.66	2.42	2.30	1.63	3.37	0.03	0.03	0.03	0.03			0.20	1.87	0.22	
Amalgara						0.13	2.78	1.15	0.80	0.20	0.16	0.12					0.20	0.20	0.10	0.21	
Pansaura						2.67	2.00	0.70	1.40	0.17	0.11				1.00			0.22	1.30	0.20	
Dantan	0.20					0.20	1.80	2.10	2.00	1.25	0.23							0.20	1.20	0.20	
Chandrakona							2.40	1.10	0.20								0.80		1.20	1.10	
Pachet						1.60	1.76	4.94	2.50	0.46		0.24	0.11	0.31	0.20			0.26	1.32	1.10	
Bhagwanpur	0.08					0.22	2.02	2.52	0.51	0.85	1.75	0.24	0.03		0.22			2.10	0.68	0.20	
Kultkiri																					
Nayabagan	0.70					1.40	1.42	4.10									0.80		0.80	1.25	
Sida (Belpahari)	0.28					0.80	0.80	2.20	0.28		1.00	0.18						2.80	0.45	0.88	
Chandri																					
Goaltore	0.80				0.08	1.60	2.35	2.45	2.75	0.95	0.30	0.19					0.20	0.12	0.18	0.20	
Saiboni	0.10					0.20	4.00	2.27	0.29		0.12						0.21		0.22	0.23	
Narayanganj						0.06	1.81	5.12	0.26	0.24							0.75	0.25	0.23	0.39	
Ramnagar						2.49	2.55	2.79	1.40		0.81				1.50	0.80	0.26	1.02	0.10	0.20	
Mohampur						2.80	2.70	4.55	4.00	2.50								1.13	0.55	0.16	
Hentia	0.10				1.40	2.75	2.60	2.10	2.00	0.70	0.15	0.05						0.60			
Jenka (Kajri)					1.00	2.38	2.40	6.65	1.95	0.85	0.48	0.12	0.03	0.02				0.76	0.06	0.20	
Nandigram				1.11	4.19	6.70	2.71	0.25	0.21	1.11	1.80	0.09	0.11	0.06			0.40		0.27	0.43	
Moyra						1.20	2.60	2.60	2.80	1.40	1.15								4.10	3.20	
Phugla	0.10					1.20	4.23	2.33	0.20	0.20	0.25							1.00	1.00	0.50	
Naraiote			0.05			0.85	1.61	0.26	1.01	0.07	0.24						0.85	1.26	0.46	0.34	

Hooghly

Barampore	0.13				0.55	1.20	1.18	1.73	1.62	0.23	0.21	0.22	0.08	0.06			0.04	0.01	0.02	1.05
Hooghly					0.05	0.25	1.95	0.45	2.75	1.20	0.75	0.25	0.10	0.04			0.09	0.09	0.03	0.45
Arambagh	0.09				1.45	0.06	1.45	0.44	0.49	0.23	0.73	0.10	0.20	0.01			0.06	0.03	0.10	0.43

Howrah

Howrah	0.23	0.26		0.08	0.27	2.09	0.20	1.76	0.92	1.23	0.47	0.53	0.09				0.23	0.28		2.45
Moharaka		0.03		0.02	0.23	4.02	2.12	2.05	1.16	0.13	0.23	0.26	0.27	0.05			0.03	0.22	0.23	0.40
Ulubaria				0.27	1.08	2.28	2.48	1.00	0.34	0.60	0.12	0.11	0.10				0.65	0.13	0.65	1.20
Amra	0.11				0.10	0.20	2.12	2.98	1.14	0.75	0.28	0.06	0.25	0.05			0.75	0.25	1.40	0.07

Sonali

Bonita	0.64				0.11	0.19	0.03	0.17	1.72	0.04	0.77	0.14	1.14				0.09	0.17	0.02	0.26
Natore	0.64							0.37	1.20	0.11	0.16	0.08	0.68	0.13	0.02		0.01	0.06	0.03	0.77
Naugach			0.22	0.09		0.10	0.60		0.07	1.07	0.89	0.12	0.13	0.02			0.07	1.00	1.75	1.44
Blitarla	2.10						0.60	1.24	1.25	2.74	0.90	0.64							0.16	0.66
Munda				0.28				0.40		0.34	1.60	0.34						4.05	0.70	1.10
Mahadebpur		4.55	0.50					0.21		0.60	1.50	1.01	0.10			0.40		0.65	0.79	0.60
Tanor			0.63							0.73	0.20	0.20			0.20				1.40	0.40
Chaugram	0.45							0.15	0.55	0.15	0.15	0.35	0.35	0.03	0.04	0.03	0.03		0.75	

Dumra

Nithpur				0.30					0.15		0.25	0.40	1.75	0.40	0.15				1.20	1.30	0.45
Nawabganj				2.00	0.60						0.20			0.40				1.00	0.90	0.60	
Gangarampur	1.79	0.15	0.31						0.72	0.45	0.31	1.29	0.15					0.25	0.31	1.04	
Chitamon	2.24	0.28	0.13					0.14	0.06	0.16	0.36	0.74	0.26					0.18	0.13	1.24	
Raiganj	0.27	0.26	0.46						0.48	0.27	0.36	0.85			0.19				0.26	1.65	
Dumra	1.20	0.15	2.70						0.12	0.48	0.17	1.58	0.10	0.02				0.22	0.18	0.37	
Balughat	1.20		1.43					0.10	0.70		0.23	0.23	0.10	0.06	0.02			0.62	0.22	0.46	
Thakurgaon		0.03	0.72	0.37					0.17	2.65	0.69	1.23	0.03					0.22	1.54	1.21	
Satnagar	0.75	0.40	2.25						0.70		1.75	0.20	1.25					0.30	0.95	1.10	
Ramganj			2.00						1.05			0.65						0.65	0.81	1.60	
Atwar		0.70						0.92	2.15		0.95				0.60		0.13		0.35	2.20	
Bitran	0.90	1.54	1.46					0.20	0.75	0.67	0.65	0.89	0.20					1.26	1.52	1.15	
Parbatpur	1.86	0.59	1.23			0.23			1.13	1.09	0.23	0.63	0.23					0.62	1.11	0.22	

Jalpaiguri

Jalpaiguri	0.25	1.23	0.02					0.28	0.76	1.60	0.65	0.63	0.21				0.02	1.01	1.45	0.23
Alipur Duarg	0.02	0.62	0.07						0.55	0.70	1.40	0.70				0.02		0.59	2.08	1.10
Falkata	0.07	0.50					0.09		0.60	1.95	1.09						1.47	1.80	1.07	2.68
Dolganj		0.90	0.90					2.85	1.65	0.22	1.40							0.70	0.73	2.49
Bhagpur	0.60	2.22	0.24			0.24	0.21	0.01	2.73	1.29	0.48	0.40	0.06	0.62	0.13	0.12	2.80	1.26		1.10
(Nagabhat)																				
Bura	0.25		0.45					0.12	1.80	2.47	1.80	0.45	0.88	0.08	1.05	1.05		7.50	1.60	0.76
Kalchit	0.75		0.05	0.11				0.14	0.77	0.94	0.23	0.76		0.24	0.12	0.18	1.08	2.05	0.08	2.27
Kumargram	0.75					0.03			0.45		1.06	2.00	1.48		0.67		0.50	0.80	0.95	0.94

Darjeeling

Siliguri	0.03	0.18	0.08					0.02	1.23	0.95	0.91	1.45	0.22	0.20	0.13	0.16	1.65	0.65	0.02	2.20
Darjeeling	0.20	0.21						0.06	1.75	1.65	2.06	2.75	1.87	0.65	0.47	0.17	2.09	2.42	0.29	2.27
Kalimpong								0.57	1.16	1.21	1.00	1.60	0.23	1.15	0.26		0.67	1.70	0.19	0.94
Moonpong	0.12	0.01						0.99	1.75	2.41	1.23	1.43	1.54	2.18	0.79	0.04	1.71	2.20	0.28	1.97
Kurseong	0.30	0.11		0.17					1.87	0.99	2.78	2.25	2.17	1.43	0.29	2.64	2.75	0.24	2.84	2.84
Pedong	0.63	1.00				0.05	0.72	1.27	0.84	0.87	2.00	1.25	0.55	0.40	0.41	0.04	0.70	2.22	0.62	0.63

Rangpur

Bhawaniganj	0.28				0.10				2.68	0.80	0.45	0.21	0.15			
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## BENGAL FOR THE MONTH OF JUNE 1919—contd.

1	2	3	4	5	6	7	8	9	10	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heavyest rainfall during the month.	Total rainfall from 1st up to 30th June 1919.	Normal rainfall (up to 30th June).	Station.	DISTRICT.	DIVISION.
0.93	0.17	...	...	...	1.35	0.13	0.17	...	0.13	17	17.0	33.54	9.91	6.10	33.38	9.91	Contai	...	Midnapore
1.29	0.84	...	...	...	0.95	0.24	1.50	...	0.08	18	11.3	17.38	10.09	3.09	17.08	10.09	Tamluk.	...	Midnapore
0.18	0.17	0.44	...	...	...	...	...	...	0.51	11	11.7	7.03	9.92	3.67	7.03	9.92	Chatal.	...	Midnapore
0.31	...	...	...	...	0.63	0.48	0.09	...	0.43	12	12.6	27.13	11.05	8.49	27.13	11.05	Rukrahati.	...	Midnapore
1.33	...	...	...	...	...	...	...	...	...	16	11.4	8.88	10.33	3.78	8.88	10.33	Amakura.	...	Midnapore
...	...	...	...	...	0.60	0.80	0.34	...	0.60	12	12.3	11.73	10.35	3.57	11.73	10.35	Pankura.	...	Midnapore
0.16	...	...	...	...	...	1.00	1.00	...	0.90	10	13.4	10.60	10.37	3.10	10.60	10.37	Dantan.	...	Midnapore
1.00	...	...	...	...	1.11	0.26	...	0.13	0.13	17	12.3	17.37	12.64	4.94	17.37	12.64	Chandrakona.	...	Midnapore
0.70	...	...	...	...	0.12	0.14	0.11	...	0.08	16	14.4	18.91	14.90	5.60	18.91	14.90	Pachet.	...	Midnapore
0.66	...	...	...	...	...	...	...	...	...	16	10.0	10.0	9.11	...	...	9.11	Bagwanpur.	...	Midnapore
0.20	...	...	...	...	0.45	0.35	0.70	0.80	...	12	(n)	12.37	(n)	1.10	12.37	(n)	Kolctri.	...	Midnapore
...	...	...	...	...	0.23	0.80	...	0.14	...	14	13.0	12.05	8.84	3.20	12.05	8.84	Nayabasan.	...	Midnapore
...	...	...	...	...	...	...	...	...	...	14	13.0	12.05	8.84	3.20	12.05	8.84	Sida (Nalpa-hari).	...	Midnapore
0.95	...	...	...	...	...	0.20	0.35	...	3.47	17	12.6	17.70	8.77	3.75	17.70	8.77	Chandri.	...	Midnapore
...	...	...	...	...	0.61	0.06	0.41	...	0.29	16	12.8	13.04	8.81	4.00	13.04	8.81	Gostore.	...	Midnapore
0.33	...	...	...	...	...	...	...	...	1.35	12	12.0	14.31	12.77	5.13	14.31	12.77	Saiboni.	...	Midnapore
0.40	0.39	0.68	0.78	0.80	0.29	0.49	0.18	...	0.44	20	12.0	31.06	11.11	3.85	31.06	11.11	Narayanganj.	...	Midnapore
0.21	...	...	...	...	0.33	0.18	0.97	...	1.31	14	10.3	26.51	9.98	0.70	26.51	9.98	Ramnagar.	...	Midnapore
...	...	...	...	...	2.00	0.25	0.18	...	...	15	10.3	18.78	13.45	3.73	18.78	13.45	Mohampur.	...	Midnapore
0.58	0.52	...	...	...	2.25	0.16	0.16	...	...	15	12.9	20.76	14.86	6.66	20.76	14.86	Huclia.	...	Midnapore
0.10	...	...	...	...	1.69	0.30	...	...	...	16	12.4	22.48	13.48	6.70	22.48	13.48	Jenka (Kahra).	...	Midnapore
2.10	...	...	...	...	...	...	...	...	...	16	11.9	24.63	9.88	6.60	24.63	9.88	Nandigram.	...	Midnapore
0.20	...	...	...	...	...	...	...	...	...	11	13.0	12.49	12.56	4.23	12.49	12.56	Moyna.	...	Midnapore
0.08	...	...	...	...	0.64	0.30	...	...	1.74	12	13.5	10.51	16.16	1.61	10.51	16.16	Piggia.	...	Midnapore
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Narajole.	...	Midnapore
0.17	...	0.54	...	...	0.04	...	0.73	...	0.03	14	12.1	10.30	10.30	1.83	10.30	10.30	Serampore	...	Hooghly
0.42	...	0.03	...	...	0.10	...	0.08	...	...	12	12.2	9.61	9.80	3.75	9.61	9.80	Hooghly.	...	Hooghly
0.47	...	...	...	...	0.11	0.33	0.86	...	...	14	12.2	7.23	9.80	1.45	7.23	9.80	Arambagh.	...	Hooghly
0.23	...	0.14	...	...	0.29	...	0.23	...	...	16	12.6	10.33	11.03	3.45	10.33	11.03	Howrah	...	Howrah
1.06	...	1.26	0.07	...	0.03	...	...	...	1.53	16	12.3	17.44	11.39	4.03	17.44	11.39	Maharoka.	...	Howrah
0.27	...	0.64	...	...	...	...	0.32	...	...	17	13.6	12.75	10.91	2.48	12.75	10.91	Ulubaria.	...	Howrah
1.30	...	1.30	...	...	...	...	0.44	...	1.72	16	11.6	16.28	11.32	3.12	16.28	11.32	Anta.	...	Howrah
0.67	0.23	...	...	...	0.67	0.02	...	0.14	0.67	16	12.6	10.00	10.49	1.39	10.00	10.49	Boalis	...	Boalis
0.99	0.16	...	...	...	0.43	0.80	...	...	...	12	12.1	6.91	11.07	1.30	6.91	11.07	Nator.	...	Boalis
0.66	...	...	...	...	...	...	0.79	0.05	...	12	12.9	11.76	12.84	3.30	11.76	12.84	Naugao.	...	Boalis
1.03	0.40	...	...	...	0.68	...	0.27	...	...	12	11.3	12.62	10.44	3.74	12.62	10.44	Bilmara.	...	Boalis
0.10	...	...	...	...	0.40	0.50	...	...	...	12	11.4	13.80	10.59	3.64	13.80	10.59	Manda.	...	Boalis
0.60	0.12	...	...	...	1.63	...	0.10	...	...	16	12.6	14.11	11.78	4.36	14.11	11.78	Mahadebpur.	...	Boalis
0.21	0.10	...	...	...	0.10	...	...	...	...	11	12.2	4.77	10.56	1.40	4.77	10.56	Tanor.	...	Boalis
0.25	0.30	...	...	...	0.06	...	0.20	0.03	...	11	(n)	4.62	(n)	0.85	4.62	(n)	Chaugram.	...	Boalis
0.90	...	...	...	...	1.17	...	0.16	...	0.23	14	10.9	9.60	11.45	1.75	9.60	11.45	Nidipur	...	Dinajpur
2.00	...	0.90	...	...	...	...	...	...	...	12	12.6	12.80	10.30	3.02	12.80	10.30	Nawabganj.	...	Dinajpur
0.69	1.07	...	...	...	0.19	...	...	...	...	14	12.0	8.73	12.40	1.79	8.73	12.40	Gangarampur.	...	Dinajpur
0.63	2.75	...	...	...	0.08	0.67	...	...	...	14	11.7	11.83	11.55	3.13	11.83	11.55	Chaugram.	...	Dinajpur
2.60	1.55	...	...	...	0.79	...	...	...	...	12	12.0	10.61	12.96	3.80	10.61	12.96	Raiganj.	...	Dinajpur
1.60	1.94	...	...	...	0.03	0.80	...	...	...	16	13.5	14.11	14.51	1.94	14.11	14.51	Dinajpur.	...	Dinajpur
1.42	2.98	...	...	...	0.55	0.78	...	...	...	16	13.0	12.31	11.95	3.95	12.31	11.95	Batughat.	...	Dinajpur
2.12	1.84	0.35	0.65	1.12	...	...	...	...	...	16	13.6	12.96	10.39	3.85	12.96	10.39	Thakurgaon.	...	Dinajpur
0.78	1.30	3.06	...	...	0.70	...	0.10	...	...	12	12.7	15.65	15.26	3.25	15.65	15.26	Satgaon.	...	Dinajpur
1.76	1.28	0.29	0.19	...	...	...	0.60	...	...	12	13.7	11.77	10.82	3.00	11.77	10.82	Rangonj.	...	Dinajpur
0.43	3.20	1.80	2.40	3.00	0.45	...	0.12	...	1.30	17	15.1	22.09	19.44	3.60	22.09	19.44	Atwarl.	...	Dinajpur
0.69	4.15	...	...	...	0.26	...	...	...	...	16	13.4	18.30	16.90	4.15	18.30	16.90	Birganj.	...	Dinajpur
0.74	1.20	...	...	...	0.28	...	0.78	...	...	17	13.2	18.43	13.60	1.50	18.43	13.60	Farbalipur.	...	Dinajpur
3.06	0.75	1.05	6.23	0.75	1.84	5.04	0.04	0.35	0.02	16	12.0	27.14	24.94	6.23	27.14	24.94	Jalpaiguri	...	Jalpaiguri
1.06	2.84	2.27	3.97	1.04	...	2.75	0.06	0.07	0.49	16	16.9	26.63	29.63	3.64	26.63	29.63	Alipur Duara.	...	Jalpaiguri
0.82	2.37	1.34	2.60	0.46	0.40	1.12	0.04	0.28	...	16	16.6	20.99	22.77	3.80	20.99	22.77	Falakata.	...	Jalpaiguri
0.60	3.60	0.61	0.73	3.21	1.48	0.43	0.08	...	0.82	17	16.7	25.84	18.70	3.60	25.84	18.70	Debaganj.	...	Jalpaiguri
1.42	1.00	1.19	1.53	4.46	1.23	0.26	0.70	1.84	0.24	25	21.1	20.68	25.39	4.46	20.68	25.39	Bhagpur.	...	Jalpaiguri
0.93	2.20	1.70	1.54	8.80	1.50	7.50	3.50	6.20	0.80	24	22.4	51.80	38.15	7.60	51.80	38.15	Bhagpur (Nagarkata).	...	Jalpaiguri
3.61	1.86	1.66	1.69	3.85	3.41	3.42	1.54	2.67	0.14	32	22.5	33.64	30.05	3.61	33.64	30.05	Bura.	...	Jalpaiguri
4.65	3.20	1.45	1.06	3.10	0.72	3.45	0.23	0.65	...	30	18.3	20.35	30.79	4.65	20.35	30.79	Kalchini.	...	Jalpaiguri
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kumargram.	...	Jalpaiguri
1.18	0.45	2.15	2.10	0.53	0.05	...	...	7.50	1.05	19	19.3	27.00	25.00	2.50	27.00	25.00	Siliguri	...	Darjeeling
1.23	0.70	2.60	0.23	0.07	1.12	0.22	0.12	1.24	1.04	23	20.7	20.12	23.59	3.85	20.12	23.59	Darjeeling.	...	Darjeeling
0.86	0.28	1.57	0.30	2.41	1.59	0.34	...	0.09	0.11	20	16.2	18.42	20.44	3.41	18.42	20.44	Katimpang.	...	Darjeeling
1.18	0.88	2.87	0.23	0.84	0.62	0.16	...	0.08	0.27	21	19.3	20.33	24.65	2.87	20.33	24.65	Monspur.	...	Darjeeling
2.42	1.24	7.04	1.45	0.54	0.66	...	0.43	0.24	0.13	24	22.0	45.85	21.14	7.04	45.85	21.14	Kurseong.	...	Darjeeling
0.70	0.60	1.24	0.17	0.70	0.22	1.00	0.23	0.25	0.04	24	22.5	20.79	19.21	2.22	20.79	19.21	Pedoug.	...	Darjeeling
3.90	2.60	...	3.70	0.22	...	...	0.06	0.24	...	17	14.1	20.03	15.45	2.70	20.03	15.45	Bhawaniganj (Ghatbandha).	...	Rangpur
1.23	2.17	0.04	2.08	0.01	...	0.13	...	...	...	15	15.5	16.93	17.78	2.17	16.93	17.78	Rangpur.	...	Rangpur
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pirganj.	...	Rangpur
4.22	2.80	1.80	1.30	1.22	0.26	0.03	...	...	...	16	15.4	21.53	17.78	4.22	21.53	17.78	Kuriganj.	...	Rangpur
0.40	1.80	2.20	2.11	0.80	...	...	...	...	0.11	12	12.6	11.11	12.67	2.20	11.11	12.67	Gobindganj.	...	Rangpur
3.20	2.62	0.56	3.02	0.23	...	0.24	...	...	...	16	15.4	19.63	19.92	3.23	19.63	19.92	Bagdoura (Nidphamari).	...	Rangpur
4.18	2.08	0.54	1.82	0.07	...	...	...	0.17	...	15	14.7	17.83	16.41	4.15	17.83	16.41	Ulipur.	...	Rangpur
3.44	0.50	0.20	4.60	...	...	...	...	...	...	11									



## DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
RAJ- SHAKI.	Malda	Malda	1.40	...	...	0.40	0.14	...	...	0.06	0.18	...	0.28	0.19	1.76	0.08	...	...	0.06	...	1.92	0.54	
		Obanohat	1.07	...	0.78	0.37	...	...	...	0.08	0.08	0.27	0.26	0.94	0.10	0.12	0.11	0.12	0.03	1.08	0.01	1.52	
		Gazol	2.40	...	...	1.00	...	...	...	0.33	0.28	0.15	0.70	0.62	0.78	...	...	...	...	3.10	2.10	0.48	
		Sibganj (Gorumatapur) Nawabganj	...	...	...	1.02	...	...	...	0.47	1.20	...	0.24	...	...	1.20	...	3.53	0.40	0.40	...	...	
Dacca.	Dacca	Munshiganj	...	...	...	0.29	...	0.20	0.65	0.41	0.53	1.37	0.74	0.66	0.12	...	0.07	...	0.07	0.08	0.37	0.63	
		Dacca	0.83	...	...	...	...	0.08	0.07	0.04	0.32	0.54	0.62	0.43	0.16	0.30	...	...	0.08	0.08	0.17	0.17	
		Nawabganj	...	...	...	0.04	...	...	1.21	0.11	0.09	0.13	0.08	0.07	1.42	...	...	0.31	0.17	2.04	0.76		
		Narayanganj	0.18	...	...	...	...	0.11	0.16	0.49	0.18	0.49	0.09	0.35	0.12	0.11	0.15	0.03	...	0.09	0.19	0.44	
		Naraindi	0.01	...	...	...	...	...	0.16	0.05	0.03	0.17	0.28	0.04	0.12	...	0.04	0.01	...	0.03	0.43	0.06	
		Manikganj	0.23	...	...	...	...	0.10	0.04	...	0.12	0.13	0.23	0.40	0.16	0.12	...	...	0.03	0.43	0.20	1.51	
	Mymensingh	Joydebpur	...	...	...	...	...	0.20	0.60	0.48	0.01	0.09	0.45	0.23	0.08	0.19	0.06	...	...	0.05	0.05	0.30	0.50
		Kapada	0.80	...	...	...	...	0.40	...	...	...	...	0.60	0.20	0.30	0.30	...	...	...	0.10	0.20	0.50	
		Kishorganj	0.80	...	...	...	0.45	...	...	...	...	1.22	3.07	0.43	0.84	...	...	0.07	0.23	0.31	0.70	0.27	
		Atia (Tangail)	...	0.18	...	...	0.45	...	...	...	0.09	0.22	0.86	0.18	...	0.03	0.10	0.20	...	0.15	0.04	0.04	
		Barisal	0.67	...	0.60	...	0.10	...	...	0.07	0.23	0.06	0.25	0.18	0.18	...	...	0.04	0.11	0.15	0.10	0.04	
		Mymensingh	1.04	...	...	...	...	0.05	...	0.01	0.23	0.06	0.25	0.18	0.18	...	...	0.04	0.11	0.15	0.10	0.04	
Faridpur...	Faridpur	Jamulpur	1.00	...	...	...	0.45	...	...	0.03	0.15	0.16	0.23	0.44	0.48	0.87	0.20	0.73	0.03	...	0.50	0.44	
		Netrokona	1.04	...	0.46	...	...	...	...	...	1.20	0.23	0.44	0.48	0.87	0.20	0.73	0.03	...	0.50	0.44	0.44	
		Pingla	1.25	...	...	2.12	0.45	...	...	...	1.36	2.50	1.27	1.28	...	1.41	...	...	1.20	2.50	1.25	2.25	
		Durgapur	...	...	...	1.80	2.30	...	...	...	1.36	2.50	1.27	1.28	...	1.41	...	...	1.20	2.50	1.25	2.25	
		Shorpur	...	...	...	0.27	0.14	...	...	...	...	0.43	...	...	...	0.16	0.04	0.11	0.30	0.09	0.19	0.14	
		(Town).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Sakarganj	Dewanganj	0.84	...	...	...	...	0.80	...	...	1.80	0.48	0.56	0.25	0.48	0.25	0.50	1.40	1.59	0.05	0.45	0.67	
		Nalitabari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Madaripur	...	...	...	...	0.29	1.76	0.78	0.61	1.12	1.41	0.35	0.35	0.23	0.66	0.36	0.09	0.14	0.34	0.27	0.66	
		Faridpur	0.06	...	...	...	0.18	0.24	0.18	0.12	0.23	0.35	...	0.02	0.16	0.24	0.03	0.14	...	0.23	0.10	0.17	
		Netaji	0.08	...	...	...	0.04	0.12	0.18	0.18	0.24	0.45	...	0.03	0.36	0.04	...	0.31	0.10	0.17	1.23	0.17	
		(Goolando).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Bakarganj	Bakarganj	Haridaspur	0.11	...	...	...	1.53	0.94	0.80	0.09	0.72	0.37	0.16	0.20	0.35	0.36	...	...	0.01	0.31	0.07	0.34	
		Takorhat	0.29	...	...	...	0.71	0.40	0.56	0.27	0.21	0.34	0.29	1.20	0.40	0.76	0.09	0.04	1.12	0.39	0.07	0.31	
		Bhauga	...	...	...	...	1.50	2.30	2.50	2.30	1.80	0.76	0.20	0.10	...	...	1.00	0.35	0.50	0.30	0.50	0.50	
		Pangsa	...	...	...	...	...	0.12	0.17	0.31	1.05	0.28	0.16	0.06	0.11	0.04	...	0.37	...	0.11	2.07	1.60	
		Balakaudi	...	...	...	...	0.07	0.23	0.68	0.40	1.49	0.71	0.21	0.15	0.06	0.08	0.20	0.03	...	0.19	0.30	1.61	
		Bhuna	...	...	...	...	0.10	0.32	0.23	0.45	0.45	0.18	0.15	0.12	...	0.26	...	...	0.35	0.10	0.19	0.27	
	Chittagong	Palong	...	...	...	...	1.20	1.40	...	0.50	1.31	2.00	1.02	0.45	...	...	0.53	...	...	0.45	0.30	1.06	
		Patanakhal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Barguna	...	...	0.10	0.29	0.24	2.01	0.15	0.75	1.94	2.20	2.05	1.70	0.90	0.35	0.33	0.13	...	0.50	0.58	0.74	
		Pirojpur	0.08	...	...	...	0.07	0.75	1.15	0.32	1.17	0.52	1.36	0.63	0.45	0.25	0.20	1.08	0.04	0.12	0.61	0.22	
		Barisal	...	...	...	...	1.05	0.23	2.08	0.29	0.59	2.31	1.21	1.11	0.91	0.25	0.17	0.33	...	0.42	1.70	0.34	
		Gaurandi	0.60	...	...	...	0.60	0.60	1.50	0.62	0.32	1.90	1.57	0.45	0.65	0.40	0.17	0.13	0.08	0.14	0.60	0.62	
Tippora	Tippora	Bhola	0.13	...	...	...	0.10	3.22	...	1.54	0.65	1.23	4.23	1.52	1.10	...	0.78	0.23	0.16	0.24	1.75	0.20	
		Daulatkhan	...	...	...	...	0.18	1.14	4.15	0.47	0.57	4.10	3.23	3.20	2.29	0.35	0.30	0.12	0.08	0.25	1.05	0.76	
		Bauphal	...	...	...	...	1.55	0.50	0.48	2.45	2.85	2.56	2.09	...	...	...	0.11	...	3.76	1.13	1.40	1.08	
		Coor's Bazar	0.07	0.01	...	...	0.20	0.86	0.19	0.05	1.09	2.01	3.25	0.25	1.21	1.28	0.25	0.87	0.16	2.27	2.21	1.08	
		Chittagong	0.24	0.05	0.15	0.28	0.23	0.12	0.13	...	0.08	2.20	3.04	3.23	2.61	0.40	...	0.09	0.02	0.30	0.23	1.08	
		Kaptai	0.10	...	...	...	0.42	0.45	...	...	0.08	2.20	3.04	3.23	2.61	0.40	...	0.09	0.02	0.30	0.23	1.08	
	Chittagong Hill Tracts.	Sakonia	...	...	...	...	0.23	0.21	0.12	0.30	0.40	1.30	1.80	2.56	3.20	2.40	1.40	...	0.54	0.21	0.10	1.21	
		Kodala	...	...	...	...	0.20	0.10	0.22	1.80	1.91	0.46	0.95	1.70	3.01	1.21	0.65	0.56	...	...	...	...	
		Mizoram	...	...	...	...	1.50	1.00	...	1.36	2.16	2.90	2.42	0.85	0.50	...	...	0.20	1.30	2.00	1.24	1.08	
		Comilla	...	...	...	...	0.23	0.34	0.27	...	1.45	0.18	2.15	2.23	2.74	0.34	0.74	...	...	...	1.42	0.79	
		Chandpur	...	...	...	...	0.24	0.34	2.65	0.06	1.16	1.23	1.24	1.23	1.03	0.07	0.06	0.11	0.40	0.05	0.05	0.60	
		Brachmanbaria	...	...	...	...	0.27	0.19	0.69	0.03	...	0.47	0.17	0.68	0.82	0.04	0.03	0.08	...	0.05	0.17	0.13	
COCH BEHAR.	Chittagong Hill Tracts.	Ramchandrapur	...	...	...	...	...	...	...	0.25	0.90	0.35	0.20	1.50	0.70	...	...	0.15	0.30	0.25	0.76	0.80	
		Nasirpur	...	...	...	...	...	...	...	...	0.73	0.20	0.20	...	...	...	...	...	...	1.05	0.32	0.39	
		Dandakandi	...	0.40	...	0.70	0.60	0.10	0.75	0.55	0.11	2.80	1.68	0.60	0.23	...	...	...	0.74	0.73	0.44	0.29	
		Kashm	...	...	...	0.60	0.10	0.16	0.37	...	1.77	0.75	0.85	1.75	0.07	0.13	...	...	...	...	0.60	...	
		Lakshmi	...	...	0.08	0.08	...	...	0.05	2.16	0.16	2.50	1.60	1.60	...	0.20	0.40	0.14	0.07	0.17	1.20	1.19	
		Noakhali	0.30	...	...	0.44	0.42	1.10	0.20	0.02	0.80	4.02	2.34	2.03	0.54	0.68	0.18	0.08	0.07	0.20	2.12	2.19	
	Hill Tippe- ra.	Foul	...	...	...	...	0.68	0.07	0.33	1.25	0.26	2.35	2.65	2.50	0.42	1.25	0.12	1.42	...	0.29	2.05	1.18	
		Harishpur	0.13	...	...	...	...	1.02	0.27	0.27	0.27	0.27	2.21	2.03	2.65	1.27	0.22	0.43	0.11	0.07	0.00	4.04	0.72
		Rangaj	0.07	...	...	...	0.05	1.23	0.60	1.05	2.45	1.07	4.21	2.27	2.24	0.26	0.40	0.45	0.07	0.30	...	0.25	
		Chhachhaya	...	...	...	0.20	0.29	0.40	0.55	1.25	0.20	2.36	2.65	2.27	0.74	1.00	0.20	0.64	...	0.25	2.13	0.64	
		Nutiya	...	...	...	...	0.16	2.03	...	0.23	1.23	2.57	2.53	1.44	1.14	1.02	0.04	...	2.30	0.44	2.02	1.47	
		Lakshmi	...	...	...	...	0.23	2.73	...	2.26	0.03	2.15	2.20	2.28	0.32	0.20	0.47	1.53	0.60	0.27	1.69	1.19	
COCH BEHAR.	Hill Tippe- ra.	Rangamati	0.31	...	0.40	0.19	...	...	1.25	2.01	...	0.53	0.77	1.23	0.51	1.21	1.25	...	...	0.07	0.19	0.19	
		Bandarbat	1.43	...	0.07																		



## BENGAL FOR THE MONTH OF JUNE 1919—continued:

1	2	3	4	5	6	7	8	9	10	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st up to 20th June 1919.	Normal rainfall from 1st up to 20th June.	Station.	DISTRICT.	DIVISION.
9.46	0.84	...	...	0.47	0.13	0.17	0.06	...	...	13	11.7	11.39	10.19	9.46	11.39	10.19	Malda.	Malda	Rangpur.
1.59	1.23	...	...	0.04	0.13	1.10	0.03	0.07	...	16	11.3	10.00	11.49	1.59	10.00	11.49	Chanchal.	Malda	Rangpur.
2.80	1.17	...	...	2.35	...	0.40	...	...	...	11	11.4	13.80	9.83	2.80	13.80	9.83	Gazol.	Malda	Rangpur.
1.67	...	0.07	0.25	...	...	...	...	...	...	10	11.7	9.14	9.83	2.10	9.14	9.83	Sibganj.	Malda	Rangpur.
1.11	0.48	...	...	7.03	1.03	...	...	...	0.07	12	13.3	17.33	11.39	7.03	17.33	11.39	Gomatapur.	Malda	Rangpur.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nawabganj.	Malda	Rangpur.
0.48	0.09	1.41	...	...	0.13	0.91	0.09	3.05	...	15	15.5	9.71	14.36	1.41	9.71	14.36	Munshiganj.	Dacca	Dacca.
0.40	0.40	0.69	0.03	...	0.08	0.10	0.12	0.38	...	15	15.2	8.90	13.89	0.85	8.90	13.89	Dacca.	Dacca	Dacca.
0.06	1.03	0.30	0.17	0.69	0.10	0.03	...	...	...	13	13.0	8.58	16.21	0.09	8.58	16.21	Nawabganj.	Dacca	Dacca.
0.49	0.16	1.90	0.02	...	0.05	0.34	0.04	...	...	16	15.3	7.32	13.91	1.90	7.32	13.91	Narayanganj.	Dacca	Dacca.
0.32	0.17	1.80	...	...	0.01	0.04	0.17	...	...	13	14.5	6.18	16.21	1.80	6.18	16.21	Narayanganj.	Dacca	Dacca.
0.34	0.35	1.22	...	...	...	...	...	...	...	14	13.4	5.93	11.53	1.53	5.93	11.53	Maulikganj.	Dacca	Dacca.
0.68	0.04	0.22	...	...	0.30	0.05	0.35	0.10	0.01	12	15.6	4.63	14.25	0.68	4.63	14.25	Joydebpur.	Dacca	Dacca.
0.80	0.10	0.20	...	...	...	...	...	...	...	13	15.8	4.87	15.08	0.80	4.87	15.08	Kapasia.	Dacca	Dacca.
4.40	1.08	2.15	2.80	...	0.05	...	...	...	...	14	16.3	16.96	18.22	4.40	16.96	18.22	Kishorganj.	Mymensingh	Mymensingh.
0.73	0.13	...	...	...	0.09	...	...	...	...	11	13.1	4.86	12.31	0.88	4.86	12.31	Atia (Tangaila).	Mymensingh	Mymensingh.
0.60	2.00	0.05	1.75	...	0.00	0.30	0.08	...	...	18	14.0	11.14	13.92	2.00	11.14	13.92	Sarishabari.	Mymensingh	Mymensingh.
0.60	2.12	0.26	4.79	...	0.03	0.95	0.06	1.04	...	14	18.4	13.33	19.06	4.79	13.33	19.06	Mymensingh.	Mymensingh	Mymensingh.
0.95	2.31	0.04	3.53	0.03	0.41	0.66	0.10	...	...	19	15.0	14.36	15.07	3.53	14.36	15.07	Jamailpur.	Mymensingh	Mymensingh.
0.78	0.94	0.76	6.28	...	0.42	0.68	0.23	...	...	20	19.2	19.03	23.62	8.28	19.03	23.62	Netrokona.	Mymensingh	Mymensingh.
0.27	1.68	0.09	1.00	...	0.88	0.07	0.17	...	...	17	14.3	12.84	12.70	3.16	12.84	12.70	Pingua.	Mymensingh	Mymensingh.
2.90	...	...	...	2.80	...	...	...	3.60	2.35	16	19.1	22.71	27.86	3.25	22.71	27.86	Durgapur.	Dacca	Dacca.
0.59	1.45	0.93	0.37	1.23	0.19	0.35	0.78	0.63	0.39	18	16.6	8.53	15.97	1.45	8.53	15.97	Sherpur (Towra).	Dacca	Dacca.
1.13	4.33	0.17	2.78	...	...	0.16	0.88	...	...	16	13.2	14.69	15.92	4.33	14.69	15.92	Dewanganj.	Dacca	Dacca.
1.66	2.16	0.20	3.67	0.30	...	...	...	...	...	17	16.2	16.04	21.63	2.67	16.04	21.63	Nalitaabari.	Dacca	Dacca.
1.02	1.04	1.50	...	...	0.29	...	...	...	...	19	16.2	12.68	12.78	1.75	12.68	12.78	Madaripur.	Faridpur	Faridpur.
0.83	0.15	1.03	...	...	0.26	0.22	...	...	...	17	14.7	5.88	13.12	2.03	5.88	13.12	Faridpur.	Faridpur	Faridpur.
0.78	0.03	1.03	...	...	0.22	0.49	...	...	...	18	14.1	6.67	13.41	1.23	6.67	13.41	Rajbari.	Faridpur	Faridpur.
2.23	0.31	0.90	0.14	...	0.22	0.22	0.24	0.18	...	20	15.6	10.70	14.38	2.23	10.70	14.38	(Goalando).	Faridpur	Faridpur.
0.41	0.14	0.48	0.02	...	0.13	0.71	0.37	...	...	20	17.0	11.42	20.09	3.21	11.42	20.09	Haridaspur.	Faridpur	Faridpur.
0.10	0.25	...	...	0.30	0.80	0.50	...	0.50	...	20	17.0	18.13	13.16	3.28	18.13	13.16	Takorhat.	Faridpur	Faridpur.
2.16	0.29	0.57	...	...	1.16	0.22	...	...	...	18	16.2	11.73	14.86	3.13	11.73	14.86	Banga.	Faridpur	Faridpur.
0.61	0.01	0.82	...	...	0.40	0.30	0.80	...	...	18	16.9	8.69	16.07	1.61	8.69	16.07	Balukandi.	Faridpur	Faridpur.
0.85	0.05	...	...	0.06	...	0.18	0.10	...	...	16	18.0	4.69	13.74	0.85	4.69	13.74	Bhuna.	Faridpur	Faridpur.
0.95	0.12	2.25	...	0.10	0.20	...	0.72	0.06	...	17	18.9	16.94	19.73	3.00	16.94	19.73	Patong.	Faridpur	Faridpur.
0.83	...	...	...	0.20	0.60	0.31	0.56	0.46	...	21	17.5	18.60	21.78	2.95	18.60	21.78	Patunkhali.	Bakerganj	Bakerganj.
0.15	...	...	...	0.26	0.07	0.19	0.19	0.06	...	19	17.6	15.96	20.80	2.32	15.96	20.80	Barguna.	Bakerganj	Bakerganj.
0.07	...	...	...	0.02	0.27	0.63	0.03	0.03	...	16	16.2	12.68	16.36	3.52	12.68	16.36	Risipur.	Bakerganj	Bakerganj.
0.07	0.19	...	...	...	0.41	0.10	...	0.41	...	10	19.8	14.55	16.69	2.21	14.55	16.69	Barisal.	Bakerganj	Bakerganj.
0.03	0.04	...	...	...	0.15	0.42	0.35	1.16	...	22	14.8	13.06	13.92	1.90	12.95	13.92	Gauradi.	Bakerganj	Bakerganj.
0.14	0.34	0.55	...	0.06	0.18	0.91	0.16	...	...	21	17.7	23.32	18.54	4.65	23.32	18.54	Bhola.	Bakerganj	Bakerganj.
0.40	0.12	0.10	0.30	0.35	0.23	0.26	...	...	...	22	17.8	24.67	21.29	4.15	24.67	21.29	Daulatganj.	Bakerganj	Bakerganj.
1.11	...	...	...	0.64	1.00	0.69	...	...	...	16	16.5	23.08	17.14	3.56	23.08	17.14	Bauphal.	Bakerganj	Bakerganj.
2.27	2.88	0.12	...	...	0.81	0.18	0.29	0.13	1.28	22	18.9	27.07	20.39	5.36	27.07	20.39	Cox's Bazar.	Chittagong	Chittagong.
1.17	0.49	...	...	...	0.30	0.06	0.28	0.02	...	19	16.8	18.60	21.87	3.33	18.60	21.87	Chittagong.	Chittagong	Chittagong.
1.04	1.56	...	...	...	0.22	...	0.27	0.21	...	19	16.6	22.37	22.70	6.80	22.37	22.70	Kutubdia.	Chittagong	Chittagong.
1.20	0.65	0.16	...	...	0.25	0.29	0.08	...	0.70	24	17.1	20.25	19.58	3.30	20.25	19.58	Satkhwa.	Chittagong	Chittagong.
0.68	0.31	...	0.07	...	0.11	...	...	...	1.06	16	17.4	14.02	17.80	2.61	14.02	17.80	Kodma.	Chittagong	Chittagong.
0.90	2.00	...	0.04	0.46	...	0.74	...	...	...	16	17.3	26.87	22.69	3.43	26.87	22.69	Miracal.	Chittagong	Chittagong.
0.63	0.78	1.45	...	...	1.01	...	0.60	...	...	17	17.4	17.40	18.05	2.78	17.40	18.05	Comilla.	Tippura	Tippura.
0.09	0.40	0.80	...	...	0.25	0.78	0.38	0.07	...	17	16.8	15.00	15.54	2.68	15.00	15.54	Chandpur.	Tippura	Tippura.
0.14	0.21	1.20	...	...	...	...	...	...	...	12	15.6	15.38	15.85	1.20	15.38	15.85	Brachmanbaria.	Tippura	Tippura.
0.62	2.22	...	...	...	0.18	...	0.46	0.27	...	18	15.2	16.45	16.29	3.22	16.45	16.29	Ramchandrapur.	Tippura	Tippura.
0.15	2.29	...	0.12	0.75	...	...	...	...	...	10	14.9	6.70	16.88	2.29	6.70	16.88	Nasirpur.	Tippura	Tippura.
0.60	1.80	...	0.23	0.40	0.27	0.16	...	0.40	...	22	14.3	14.69	14.38	2.80	14.69	14.38	Daudkandi.	Tippura	Tippura.
0.80	...	1.85	...	...	...	...	0.40	...	...	13	16.2	10.00	16.60	1.95	10.00	16.60	Easibi.	Tippura	Tippura.
0.68	1.04	0.70	0.21	...	0.64	0.18	0.84	...	0.24	19	14.4	17.80	16.43	3.14	17.80	16.43	Lakum.	Tippura	Tippura.
0.96	1.58	0.14	0.23	...	0.70	1.02	0.34	1.04	...	22	18.3	25.93	22.47	4.09	25.93	22.47	Noakhali.	Nakhali	Nakhali.
0.53	1.09	0.70	...	...	1.30	0.15	0.64	...	...	21	17.8	22.42	23.06	3.32	22.42	23.06	Feul.	Nakhali	Nakhali.
0.38	0.37	0.04	...	...	0.78	0.08	1.10	...	0.06	19	16.8	21.76	23.30	4.04	21.76	23.30	Harishpur.	Nakhali	Nakhali.
0.42	0.50	...	...	0.55	0.23	1.26	0.05	0.16	...	20	16.2	25.20	16.49	4.91	25.20	16.49	Rangpur.	Nakhali	Nakhali.
0.68	1.70	...	...	0.28	0.20	...	0.30	0.18	...	22	17.3	23.60	20.56	3.35	23.60	20.56	Chitraguaya.	Nakhali	Nakhali.
0.81	1.04	...	0.11	0.12	0.12	0.85	0.36	0.17	...	20	17.8	25.59	22.13	3.97	25.59	22.13	Hatly.	Nakhali	Nakhali.
1.05	1.11	0.74	...	0.17	0.70	...	0.62	...	...	22	18.4	29.23	20.31	6.02	29.23	20.31	Lathampur.	Nakhali	Nakhali.
0.22	0.19	0.55	...	...	0.60	...	0.20	0.04	...	17	19.7	12.61	17.84	3.01	12.61	17.84	Rangamati.	Chittagong Hill Tracts	Chittagong.
0.88	1.01	0.28	0.27	0.06	0.26	0.94	0.68	0.03	...	22	19.0	16.16	20.06	2.84	16.16	20.06	Bandarban.	Chittagong Hill Tracts	Chittagong.
0.51	0.66	0.48	0.01	0.12	0.08	0.93	0.20	...	...	23	20.1	13.70	19.08	1.43	13.70	19.08	Barail.	Chittagong Hill Tracts	Chittagong.
0.66	0.28	...	...	0.04	0.49	0.06	0.18	...	0.40	18	(n)	14.45	(n)	1.78	(n)	14.45	Mahacheri.	Chittagong Hill Tracts	Chittagong.
0.45	2.00	1.20	...	0.23	0.20	...	...	0.60	...	23	(n)	21.20	(n)	4.97	(n)	21.20	Lama.	Chittagong Hill Tracts	Chittagong.
0.14	0.87	0.50	...	...	...	...	0.08	...	...	19	(n)	4.63	(n)	1.91	(n)	4.63	Kangarh.	Chittagong Hill Tracts	Chittagong.
0.85	0.95	0.11	...	0.25	...	0.32	0.02	...	0.22	17	15.5	9.73	15.47	1.43	9.73	15.47	Agartala.	Hill Tippura	Hill Tippura.
2.93	5.43	0.69	0.79	3.87	...	0.44	...	...	0.26	20	17.2	25.26	26.02	5.43	25.26	26.02	Dinhat.	Cooch Behar	Cooch Behar.
2.63	5.60	1.20	2.30	2.40															



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						Rise.	Fall.	1917.	1918.	
Ganges	11th July 1919	6 A.M. ...	16.47	101.83	118.30	1.00	...	116.10	114.80	
	11th "	6 " "	19.25	56.379	75.569	0.65	...	74.91	73.06	
	11th "	8 hours ...	19.90	...	...	0.20	...	20.60	20.30	
Brahmaputra	11th "	8 " "	25.90	148.76	174.66	0.30	...	174.46	174.96	
	11th "	12 " "	39.00	...	...	0.10	...	...	...	
	11th "	8 A.M. "	22.00	...	...	1.40	...	...	...	
Meghna	11th "	6 hours ...	13.75	1.61	15.36	0.17	...	...	...	
	11th "	17 " "	11.17	1.61	12.78	0.25	...	...	...	
	11th "	7 A.M. ...	22.70	...	...	0.20	...	...	...	
Dhaleswari	11th "	7 " "	26.40	-8.62	17.78	0.10	...	...	...	
	11th "	6 " "	10.56	1.509	12.069	0.26	...	15.63	9.90	
Damodar	11th "	6 " "	7.50	92.58	100.08	...	1.58	...	...	
Lakhya	11th "	...	20.00	-5.59	14.41	0.25	...	...	...	
Madaripur Bil Route	11th "	6 A.M. ...	10.35	-0.599	9.751	0.05	...	...	...	



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						Rise.	Fall.	1917.	1918.	
Gauges	12th July 1919	6 A.M. ...	17.87	101.83	119.70	1.40	...	116.90	115.70	
	12th "	6 " ...	20.25	56.319	76.569	1.00	...	75.51	73.66	
	12th "	8 hours ...	20.10	...	...	0.20	...	20.70	20.50	
Frahmaputra	12th "	8 " ...	26.50	148.76	175.26	0.60	...	174.86	175.46	
	12th "	12 " ...	39.10	...	...	0.10	...	...	...	
	12th "	8 A.M. ...	21.80	...	...	...	0.20	...	...	
Meghna	12th "	6 hours ...	14.25	1.61	15.86	0.50	...	...	...	
	12th "	18 " ...	11.25	1.61	12.86	0.08	...	...	...	
	12th "	7 A.M. ...	23.00	...	...	0.30	...	...	...	
Dhaleswari	12th "	7 " ...	26.50	- 8.62	17.88	0.10	...	...	...	
	12th "	6 " ...	11.34	1.509	12.849	0.78	...	16.23	10.92	
Damodar	12th "	6 " ...	6.50	92.58	99.08	...	1.00	...	...	
Lakhya	12th "	...	20.08	- 5.50	14.49	0.08	...	...	...	
Madaripur Bil Route	12th "	6 A.M. ...	10.40	- 0.599	9.801	0.05	...	...	...	







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						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	14th July 1919	6 A.M. ...	18.37'	101.83'	120.20'	...	117.60'	115.70'	
	... { Rajmahal ...	14th "	6 "	21.40'	56.319'	77.719'	...	77.11'	74.71'	
	... { Goalundo ...	14th "	8 hours ...	20.80'	...	...	...	21.20'	21.20'	
Brahmaputra	Gauhati ...	14th "	8 "	27.10'	148.76'	175.86'	...	175.96'	177.16'	
	... { Seraiganj ...	14th "	12 "	39.20'	...	...	...	...	...	
	... { Dibrugarh ...	14th "	8 A.M. ...	19.90'	...	...	0.30'	...	...	
Meghna	Bhairab Bazar ...	14th "	6 hours ...	14.42'	1.61'	16.03'	...	...	...	
	... { Chandpur ...	14th "	19 "	11.75'	1.61'	13.36'	...	...	...	
	... { Fenchuganj ...	14th "	7 A.M. ...	...	...	...	...	...	...	
Dhaleswari	... Sabhar ...	14th "	7 "	26.80'	- 8.62'	18.18'	...	...	...	
Bhagirathi	... Swarupganj ...	14th "	6 "	13.10'	1.509'	14.609'	...	17.35'	13.68'	
Damodar	... Edtipur ...	14th "	6 "	5.75'	92.58'	98.33'	0.25'	...	...	
Lakhya	... Narayanganj ...	14th "	...	20.42'	- 5.59'	14.83'	...	...	...	
Madaripur Bil Route	Takerhat ...	14th "	6 A.M. ...	10.60'	- 0.599'	10.001'	...	...	...	



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						Rise.	Fall.	1917.	1918.	
Ganges	15th July 1919	6 A.M.	17.87	101.83	119.70	...	0.50	117.70	115.50	
	15th "	6 "	21.65	56.319	77.969	0.25	...	77.26	74.51	
	15th "	8 hours	21.00	...	...	0.20	...	21.40	21.50	
Brahmaputra	15th "	8 "	27.00	148.76	175.76	...	0.10	176.96	177.66	
	15th "	12 "	39.50	...	...	0.30	...	...	...	
	15th "	8 A.M.	20.10	...	...	0.40	...	...	...	
Meghna	15th "	6 hours	14.38	1.61	16.19	0.16	...	...	...	
	15th "	7.30 "	11.33	1.61	12.94	...	0.42	...	...	
	15th "	7 A.M.	23.70	...	...	...	...	...	...	
Dhaleswari	15th "	7 "	27.00	- 8.62	18.38	0.20	...	...	...	
Bhagirathi	15th "	6 "	15.11	1.509	16.619	2.01	...	18.84	14.44	
Damodar	15th "	6 "	11.75	92.58	104.33	6.00	...	...	...	
Lakhsya	15th "	...	20.62	- 5.59	15.03	0.20	...	...	...	
Madaripur Bil Ronte	15th "	6 A.M.	10.70	- 0.599	10.101	0.10	...	...	...	



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						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	16th July 1919	6 A.M.	17-17'	101-83'	119-30'	...	0-40'	117-70'	115-30'
	Rajmahal ...	16th "	6 "	21-40'	56-319'	77-719'	...	0-25'	77-46'	74-46'
	Goalundo ...	16th "	8 hours	21-30'	...	...	0-30'	...	21-50'	21-80'
Brahmaputra	Gauhati ...	16th "	8 "	26-90'	148-76'	175-66'	...	0-10'	176-76'	177-76'
	Seraiganj ...	16th "	12 "	39-70'	...	...	0-20'	...	...	...
	Dibrugarh ...	16th "	8 A.M.	23-10'	...	...	2-80'	...	...	...
Meghna	Bhairab Bazar ...	16th "	6 hours	14-75'	1-61'	16-36'	0-17'	...	...	...
	Chandpur ...	16th "	8 "	11-33'	1-61'	12-94'	Steady	...	...	...
	Fenchanganj ...	16th "	7 A.M.	24-00'	...	...	0-30'	...	...	...
Dhaleswari	Sabhar ...	16th "	7 "	27-20'	-8-62'	18-58'	0-20'	...	...	...
Bhagirathi	Swarupganj ...	16th "	6 "	18-26'	1-509'	19-769'	3-15'	19-43'	15-10'	...
Damodar	Edilpur ...	16th "	6 "	11-75'	92-58'	104-33'	Steady	...	...	...
Lakhya	Narayanganj ...	16th "	...	20-73'	-5-59'	15-14'	0-11'	...	...	...
Madaripur Bil Route	Takerhat ...	16th "	6 A.M.	10-80'	-0-599'	10-201'	0-10'	...	...	...



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						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	17th July 1919	6 A.M. ...	17-27'	101-83'	119-10'	...	0-20'	118-00'	115-30'
	... { Rajmahal ...	17th "	6 "	21-05'	56-319'	77-369'	...	0-35'	77-56'	74-41'
	... { Goalundo ...	17th "	8 hours	21-60'	...	...	0-30'	...	21-70'	21-90'
Brahmaputra	Gauhati ...	17th "	8 "	26-60'	148-76'	175-36'	...	0-30'	176-76'	177-76'
	... { Serajganj ...	17th "	12 "	39-80'	...	...	0-10'	...	...	...
	... { Dibrugarh ...	17th "	8 A.M. ...	21-90'	...	...	1-20'	...	...	...
Meghna	Bhairab Bazar	17th "	6 hours	14-83'	1-61'	16-44'	0-08'	...	...	...
	... { Chandpur ...	17th "	8-35 "	11-50'	1-61'	13-11'	0-17'	...	...	...
	... { Fenchuganj ...	17th "	7 A.M. ...	24-25'	...	...	0-25'	...	...	...
Dhaleswari	... Sabhar	17th "	7 "	27-30'	- 8-62'	18-68'	0-10'	...	...	...
Bhagirathi	... Swarupganj...	17th "	6 "	19-59'	1-509'	21-099'	1-33'	...	19-53'	15-63'
Damodar	... Edilpur	17th "	6 "	10-25'	92-58'	102-83'	...	1-50'	...	...
Lakhya	... Narayanganj...	17th "	...	20-79'	- 5-59'	15-20'	0-06'	...	...	...
Madaripur Bil Route	Takerhat ...	17th "	6 A.M. ...	11-00'	- 0-599'	10-40'	0-20'	...	...	...



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 12th July 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to corrected datum.(a)	Height of surface above mean sea-level on the same date last year according to corrected datum.(a)	Remarks.
1919.					
6th July ...	8 A.M.	Zero of gauge is at mean sea-level.	48.50	50.21	B. M. on College Step corrected 64.93.
7th " ...	8 "		48.80	50.21	
8th " ...	8 "		49.15	50.41	
9th " ...	8 "		49.90	50.91	
10th " ...	8 "		50.80	51.76	
11th " ...	8 "		51.85	52.51	
12th " ...	8 "		52.60	53.11	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. 2876, dated 18.9.17, dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

		Old value.	According to corrected datum (a)
The previous year ...	Highest water-level ...	66.52 on 30th August 1918 ...	61.71
Ditto ...	Lowest " ...	41.70 on 21st April 1918 ...	36.89
Record ...	Highest " ...	69.25 on 26th August 1879 ...	61.44
Do. ...	Ditto " ...	69.08 on 9th September 1885 ...	61.27
Do. ...	Ditto " ...	68.30 on 26th August 1906 ...	63.47
Do. ...	Ditto " ...	68.21 on 26th August 1900 ...	63.40
Do. ...	Lowest " ...	37.63 on 26th April 1884 ...	32.82
Do. ...	Ditto " ...	38.13 on 14th—15th April 1883 ...	33.32
Do. ...	Ditto " ...	39.02 on 21st—22nd April 1897 ...	34.21
Do. ...	Ditto " ...	39.28 on 6th—7th May 1908 ...	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 12th July 1919.

D. M. BANERJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 12th July 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
6th July ...	7 A.M.	19.6	19.6	20.2	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41. Goalundo ghât shifted from Saback Goalundo to Fakirabad on the 29th June morning and gauge reading from 30th June 1919 is of Fakirabad.
7th " ...	7 "	19.3	19.3	20.2	
8th " ...	7 "	19.4	19.4	20.2	
9th " ...	7 "	19.5	19.5	20.2	
10th " ...	7 "	19.7	19.7	20.2	
11th " ...	7 "	19.9	19.9	20.3	
12th " ...	7 "	20.1	20.1	20.5	

The previous year ...	Highest water-level ...	25.2 on 1st September 1918.
Ditto ...	Lowest " ...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges) ...	Highest " ...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges) ...	Ditto " ...	25.74 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges) ...	Ditto " ...	25.66 on 11th to 17th and 21st August and on 1st to 2nd September 1889.
Record (H.F. in Brahmaputra only) ...	Ditto " ...	25.66 on 31st July 1900.
Do. ...	Lowest " ...	1.0 on 8th February 1914.
Do. ...	Ditto " ...	2.42 on 13th March 1908.
Do. ...	Ditto " ...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do. ...	Ditto " ...	2.16 on 9th to 11th March 1885.
Do. ...	Ditto " ...	2.16 on 16th, 17th and 29th to 31st March 1901.

N.B.—The gauge-readings commenced from 3rd October 1900.

FARIDPUR,  
The 12th July 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur



**Statement showing the gauge-readings at Dacca Water-works Station  
on the river Buriganga for the week ending the 12th July 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919. 6th July	63.0	...	...	...	...	63.05	Rising.
7th "	63.0	...	...	...	...	63.05	Do.
8th "	63.05	..	...	...	...	63.05	Do.
9th "	63.05	...	...	...	...	63.05	Do.
10th "	63.2	...	...	...	...	63.2	Do.
11th "	63.35	...	...	...	...	63.35	Do.
12th "	63.4	...	...	...	...	63.45	Do.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.16	
13th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	68.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	Taken at low tide.
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
15th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1916	...	...	...	50.60	
15th "	1916	...	...	...	50.60	
8th March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 15th July 1919.

W. J. KERR,  
Executive Engr., Dacca Division.

**GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.**

**Approximate return of traffic on the Circular and Eastern Canals for  
the week ending Saturday, the 19th July 1919, as compared  
with the corresponding week of the previous year.**

Nature of Cargo.	WEEK ENDING SATURDAY, THE 19TH JULY 1919.			WEEK ENDING SATURDAY, THE 19TH JULY 1918.		
	Number of boats.	Weight of cargo.	Tonnage.	Number of boats.	Weight of cargo.	Tonnage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	374	53,965	847	428	43,935	742
Jute ...	44	22,012 <sup>0</sup>	206	36	31,192 <sup>†</sup>	278
Firewood ...	68	36,025	523	109	36,825	601
Other articles ...	756	227,248	2,237	716	163,177	2,012
Total ...	1,242	339,250	3,613	1,289	275,129	3,633
Empty boats and rafts ...	441	...	1,670	480	...	791
GRAND TOTAL	1,683	339,250	5,483	1,769	275,129	4,424

<sup>0</sup> Weight by canal measurement ... Mds. 34,000  
<sup>†</sup> Ditto ditto ... 25,100

CALCUTTA,  
The 22nd July 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.





# The Calcutta Gazette

WEDNESDAY, JULY 30, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 19TH JULY 1919.

DURING the week the rainfall was general but scanty. More rain is wanted for transplantation on high land. Sixty-seven works were open during the week. The number of persons relieved on works was 3,917. The number of persons in receipt of gratuitous relief was 21,130, viz., 16,054 on cash doles in 124 unions, 3,683 on paddy-husking advances, 853 weavers and 540 better class poor. The total number of persons relieved was 25,047. The decrease in the number of persons on relief works was due to the diversion of workers to agricultural operations, while the increase in numbers on gratuitous relief was due to the extension of relief to nine new unions. No further extension of gratuitous relief centres is expected. The number of persons relieved on private works was 650. Also four charitable societies relieved 1,527 other persons by rice doles. The physical condition of workers and public health are generally good. Sporadic cases of cholera are reported. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5½ to 5¾ seers per rupee. Burma rice is being sold by the District Board.

M. C. MCALPIN,

Secy. to the Govt. of Bengal.

DACCA, the 26th July 1919.



**APPOINTMENT OF A COMMITTEE TO CONSIDER CERTAIN  
QUESTIONS CONNECTED WITH THE CONSTITUTION AND  
FUNCTIONS OF TEXT-BOOK COMMITTEES IN BENGAL.**

**GOVERNMENT OF BENGAL.**

**GENERAL DEPARTMENT.**

**Education Branch.**

CALCUTTA, THE 29TH JULY 1919.

**RESOLUTION—No. 1286Edn.**

THE Governor-in Council has decided to appoint a Committee consisting of the following gentlemen to advise Government on certain questions connected with the constitution and functions of text-book committees in Bengal :—

- (1) Mr. T. O. D. Dunn, Secretary, Calcutta Text-book Committee (President).
- (2) Mr. W. E. Griffith, Secretary, Dacca Text-book Committee.
- (3) The Hon'ble Babu Brojendra Kishore Roy Chowdhury.
- (4) The Hon'ble Dr. A. Suhrawardy.
- (5) Babu G. C. Bose, Principal, Bangabasi College, Calcutta.
- (6) Babu S. C. Bose, Head Master, Mitra Institution, Bhowanipur.
- (7) Babu S. C. Sanyal, Secretary, Calcutta Historical Society.
- (8) Babu Santosh Kumar Lahiri of Messrs. S. K. Lahiri & Co., Calcutta.
- (9) Babu Bama Charan Auddy of Messrs. S. C. Auddy & Co., Calcutta.
- (10) Babu Brojendra Mohan Dutt of the Students' Library, Dacca.
- (11) Mr. J. W. Gunn, Assistant Director of Public Instruction, Bengal (Secretary).

2. The questions on which the Committee are asked to advise are as follows :—

- (i) The constitution and functions of a Text-book Committee.
- (ii) The determination of a definition of a satisfactory text-book for middle and primary schools.
- (iii) The principles on which the Education Department should proceed to curtail the list of text-books for middle and primary schools and the possibility of preventing a list of excessive length in future.

ORDER.—Ordered that the resolution be published in the *Calcutta Gazette*, that copies with copies of the letter from the Government of India, Department of Education, No. 175, dated the 12th February 1919, be forwarded to the President and members of the Committee for information.

Ordered also that a copy be forwarded to the Director of Public Instruction, Bengal, for information.

By order of the Governor in Council,

S. W. GOODE,

*Offg. Secy. to the Govt. of Bengal.*



## DEPARTMENT OF AGRICULTURE, BENGAL.

### Forecast of the Summer T// Crop of Bengal, 1919-20.

*(Note.—On an average of the five years ending 1916-17, the area under till in Bengal has represented about 4·8 per cent. of the total area under till in British India.)*

**Character of the season.**—The scarcity of rain from the sowing time up till the middle of April proved very unfavourable to the crop throughout the province. As a consequence, the growth of the crop was retarded in most places. Considerable damage, due to drought, is reported from many districts, notably from Jessore, Burdwan, Hooghly, Howrah, Pabna and Noakhali. Good showers in the latter part of April somewhat improved the prospects. In the following two months, the rainfall, though on the whole defective, was generally helpful to the growth of the crop. On the whole the weather has not been generally favourable for the crop.

**Acresage.**—The total area sown with the crop this year is reported to be 167,300 acres as compared with 168,900 acres (revised) last year.

**Outturn.**—According to the estimates of district officers, the average outturn of the crop for the province works out at 76 per cent. of the normal this year against 70 per cent. last year. Taking the normal yield at  $6\frac{1}{2}$  maunds per acre, the gross outturn for the province is estimated at 28,600 tons against 26,600 tons (revised) last year or an increase of about 7·5 per cent.

ROBERT S. FINLOW,

*Offg. Director of Agriculture, Bengal.*

Dacca, the 23rd July 1919.



## APPENDIX I.

## Forecast of the Summer T// crop of Bengal, 1919-20.

District.	Estimated normal area under summer T//.	ESTIMATED AREA UNDER SUMMER T//.		TAKING 100 TO REPRESENT THE NORMAL, WHAT WOULD BE THE AVERAGE OUTTURN PER ACRE CROPPED.		Date by which sowing generally began this year and whether that date was early, normal or late.	Date by which harvesting generally commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year.	This year.	Last year.	This year.			
1	2	3	4	5	6	7	8	9
	Acres.	Acres.	Acres.					
24 Parganas ...	100	100*	100*	93	100	Middle April.	Not yet begun	The weather was favourable.
Murshidabad ...	1,000	1,000	1,700	100	75	March. Normal.	June. Normal	The decrease in area this year was due to want of rainfall at sowing season. Owing to unfavourable weather at the beginning, the crop was damaged to the extent of about 25 per cent. Subsequently the weather became favourable.
Jamshedpur ...	3,300	1,800	1,800	66	65	February. Normal.	June ...	The weather was not favourable owing to drought which hampered the growth of the crop and damaged about a third of the crop.
Khulna ...	4,400	800	800	63	77	June ...	Later part of May. Normal.	The weather was favourable. The outturn is expected below the normal owing to want of rain during the period of growth. The increase in area was due to timely rainfall at sowing time.
Burdwan ...	2,800	2,700	2,600	75	38	February to March. Normal.	May to June...	The decrease in area compared with last year was due to want of timely rain. The outturn is much below the normal owing to drought which affected the growth of the crop. In places the crop withered.
Birbhum ...	400	400*	400*	75	67	March. Normal.	June. Normal	The weather has not been favourable. The outturn is below the normal owing to want of sufficient rain.
Bankura ...	2,700	2,100	1,600	100	67	End of April. Late.	Middle of July. Late.	The decrease in area was due to want of sufficient rainfall during the sowing season. The weather has not been favourable. The outturn is below the normal owing to want of timely rain.
Midnapore ...	7,500†	6,800	7,000	60	80	March and April. Normal.	May and June. Normal.	Heavy rain at sowing time crippled the growth of the plants to some extent. Subsequently, however, the weather has become favourable.
Hooghly ...	1,000	100*	900*	62	55	End of March. Normal.	First week of June. Normal.	The weather has not been favourable owing to want of rain.
Howrah ...	300	(10)	(2)	83	60	End of February. Late.	Beginning of May.	The weather was not favourable. The decrease both in area and outturn this year was due to want of timely rain.
Rajshahi ...	18,500	5,700	6,100	77	80	End of February to middle of March. Normal.	Middle of June. Normal.	The increase in area was due to favourable weather at sowing time. The outturn is below the normal owing to unfavourable weather after sowing.
Dinajpur ...	200	200*	200*	76	75	May. Normal	.....	The weather has not been favourable. The outturn is below the normal owing to want of rain at sowing time.
Raipur ...	200	200*	200*	100	85	March. Normal.	June. Normal	The weather was not favourable at sowing time, but subsequently it was somewhat favourable. The outturn was below the normal owing to drought.
Bogra ...	3,600	1,300	1,400	60	80	.....	.....	The weather was favourable to the crop during the time of maturity, but was not favourable previously in all places in the district.
Pabna ...	24,500	35,000	31,100	60	30	Middle of March. Normal.	Middle of June. Normal.	The decrease in area was due to unfavourable weather at sowing time. Want of rain since sowing time retarded the growth of the crop and damaged about half the crop.
Malda ...	400*	...	...	...	...	.....	.....	The crop has not been cultivated in the district owing to unfavourable weather at the time of sowing.
Dacca ...	8,100	17,200	17,500	66	63	February to beginning of April.	June and July. Normal.	The weather was not very favourable at sowing time. Drought caused slight damage to the crop. Subsequently the conditions improved.
Mymensingh ...	112,500	76,400	76,400	77	76	Middle of March. Normal.	Middle of June. Normal.	The weather was not favourable at sowing time for want of rain. Damage was caused to the extent of 25 per cent. by drought.

\* Conventional area.

† Revised.



District.	Estimated normal area under summer III.	ESTIMATED AREA UNDER SUMMER III.		TAKING 100 TO REPRESENT THE NORMAL, WHAT WOULD BE THE AVERAGE OUTTURN PER ACRE CHOPPED.		Date by which sowing generally began this year and whether that date was early, normal or late.	Date by which harvesting generally commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year.	This year.	Last year.	This year.			
1	2	3	4	5	6	7	8	9
	Acres.	Acres.	Acres.					
Faridpur	11,300	11,400	11,600	81	96	January. Normal.	June. Normal	The increase in area was due to extension of cultivation. The weather was favourable. The outturn however fell slightly below the normal owing to the weather becoming a little unfavourable at the time of harvesting in the Madaripur subdivision.
Bakerganj	7,600	4,600	3,000	75	128	Ditto	Middle of April. Normal.	The increase in area was due to favourable weather and to high price of oil.
Chittagong	300	300	300	95	100	March. Normal.	June. Normal	The weather was favourable.
Tippera	11,400	9,500	9,300	75	70	Ditto	Ditto	The decrease in area was due to drought. The weather was not favourable. About 30 per cent. of the crop was damaged by continued drought.
Noakhali	800	800†	300	60	60	February. Normal.	Ditto	The decrease in area was due to transfer of the area under jute. The weather was favourable at sowing time, but subsequently want of rain retarded the growth of the crop. The outturn has consequently fallen below the normal.
Total Bengal	227,300	168,900	167,300	70	76			

\* Conventional area.

† Revised.

## APPENDIX II.

## Abstract statement of estimated acreage and outturn of the Summer III crop of Bengal, 1919-20.

Provinces.	AREA (IN ACRES).						YIELD (IN TONS).					
	Of current year's crop.	Of previous year's crop.	Average of preceding.	PERCENTAGE BY WHICH COLUMN 2 EXCEEDS (+), OR IS LESS THAN (-) AREA IN		Estimated yield of current year, i.e., of area in column 2.	Yield of previous year, i.e., of area in column 2.	Average of preceding.	PERCENTAGE BY WHICH COLUMN 7 EXCEEDS (+), OR IS LESS THAN (-), YIELD IN			
				Column 3.	Column 4.				Column 8.	Column 9.		
1	2	3	4	5	6	7	8	9	10	11		
			Five years. Ten years.		Five years. Ten years.			Five years. Ten years.		Five years. Ten years.		
Bengal	167,300	168,900*	182,500 180,100	-25 -8.2	-13	26,600	26,600	30,100 26,600	+7.4	+42.2 +11.7		

\* Revised.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 24th July 1919.

**Summary.**—During the week heavy rain fell throughout the province, excepting in some parts of West Bengal, where the fall was light to moderate. Transplanting of winter paddy is progressing fairly. Harvesting autumn paddy, cutting and steeping of jute continue in Eastern Bengal. Damage to jute by insects is reported from places of West Bengal. The condition and prospects of standing crops are generally reported to be favourable. The average price of common rice for the province has risen by about 2·66 per cent. as compared with that of the previous week. The average number of persons engaged daily on test works in the Brahmanbria subdivision was 641.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	3·51	5½	5½	Transplanting of <i>aman</i> paddy continues. Fodder and water are sufficient. Condition and prospects of jute are good. The effects of weather are good.
	Diamond Harbour.	3·78	5½	5½	
	Barrackpore	4·35	5	5	
	Barasat	7·30	5½	5½	
	Basirhat	3·09	6½	6½	
2	NADIA	7·66	5½	5½	Prospects of <i>aus</i> paddy are good and those of jute fair. Harvesting of <i>aus</i> paddy has commenced. Effects of weather are favourable to jute. Some damage to jute has been done by insect-pests. Transplanting of <i>aman</i> paddy has commenced. Cattle-disease is reported from thana Chuadanga.
	Kushtia	3·53	5½	5	
	Meherpur	7·60	6½	6½	
	Chuadanga	4·94	6	6	
	Ranaghat	9·95	5½	5½	
3	MURSHIDABAD	1·11	5½	5½	Weather hot and cloudy. Prospects of standing crops are fair. More rain is wanted for transplanting of winter paddy. Condition and prospects of jute are good. Effects of weather are favourable to its growth. Damage by flood in Jangipur subdivision is apprehended. Harvesting has not commenced. Cattle-disease is reported from Mirzapur in Jangipur subdivision. Fodder is sufficient.
	Lalbagh	1·90	5½	5½	
	Jangipur	3·96	5	5½	
	Kandi	0·59	5	5½	
4	JESSORE	4·59	6	6	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy continue. Standing crops are doing well. Condition and prospects of jute are fair. Slight damage to jute by insect-pests is reported. Fodder is sufficient.
	Jhenidab	6·35	6	7	
	Magura	7·67	6	6	
	Narail	6·32	5½	5½	
	Bangaon	9·32	5½	6	
5	KHULNA	4·08	6	5½	Transplantation of <i>aman</i> paddy is going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cultivation is over. Harvesting has not yet commenced. Fodder and water are sufficient. Cattle-disease is reported from Kachua police-station.
	Satkhira	5·06	6	6	
	Bagerhat	6·24	5½	5½	



Serial No.	Districts and sub-divisions.	Rainfall.	PRICE OF COMMON RICE, IN SEEDS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	6.50	5	5½	Weather hot and cloudy. Ploughing of fields and transplanting of <i>aman</i> paddy are progressing. More rain is urgently needed. Condition and prospects of jute are fair. <i>Aus</i> paddy, vegetables, and sugarcane are doing well. Cattle disease is reported from Faridpur and Kaksā.
	Asansol ...	4.18	5	4½	
	Katwa ...	1.78	5½	5½	
	Kalna ...	4.70	5½	5½	
7	BIRBHUM ...	0.75	5½	5½	Transplantation continues. More rain is wanted in places. Parts of Rampurhat subdivision have been flooded. Fodder and water are sufficient.
	Rampurhat	2.65	5	5½	
8	BANKURA ...	0.98	5½	5½	Transplantation of paddy is going on, but the progress is retarded at places for want of sufficient rain. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	0.78	5½	5½	
9	MIDNAPORE	1.87	5½	5½	Transplantation of winter rice continues. Condition and prospects of jute are fair. Fodder supply is sufficient.
	Ghatal ...	1.73	5½	5½	
	Tamluk ...	1.12	6½	5½	
	Contai ...	1.72	6½	6½	
10	HOOGHLY ...	2.87	4½	4½	Condition and prospects of jute are fair; the effects of weather on the growth of the crop are unfavourable. Damage by insect-pests is reported from Serampore subdivision. Cultivation is completed. Fodder is sufficient. Price of rice is steady. Cattle-disease is reported from Polba thana.
	Serampore ...	3.11	5½	5½	
	Arambagh ...	2.44	6	(n)	
11	HOWRAH ...	2.28	5	5½	Weather seasonable. Effects of weather are favourable to jute. Condition of jute is good. Transplanting of winter paddy continues. Fodder is sufficient. No damage done to jute.
	Ulubaria ...	1.11	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	4.76	5	5	The prospects of jute and other standing crops are favourable. Harvesting of jute continues in the Naogaon and Sadar subdivisions. Fodder is sufficient.
	Naogaon ...	7.96	5	5½	
	Nator ...	6.98	4½	4½	
13	DINAJPUR ...	3.07	5½	5½	Rain is sufficient and beneficial to the standing crops. Prospects of jute are fair. Harvesting of jute and <i>bhadoi</i> paddy has begun. Transplanting of winter paddy continues. Fodder is sufficient.
	Thakurgaon	1.35	6	6	
	Balurghat ...	6.64	5	5½	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
14	JALPAIGURI	Inches 10.03	5½	5½	Prospects of standing crops are fair and those of jute are good. Effects of weather are favourable to jute. Fodder is sufficient.
	Alipur ...	11.43	5	5	
15	DARJEELING	8.46	4½	4½	Harvesting of potatoes and maize continues. Standing crops are in good condition. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Harvesting has begun. Transplanting of autumn paddy, <i>marua</i> and millet is in progress. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	13.46	4½	4½	
	Siliguri ...	9.64	4½	4½	
	Kalimpong ...	3.62	5½	5½	
16	RANGPUR ...	5.62	5	5	Weather cloudy and its effects are favourable to jute. Cutting, steeping and washing of jute are in progress. No damage done to jute. Harvesting of <i>aus</i> paddy is in progress. Transplantation of winter rice is going on. Condition and prospects of jute are good. Fodder and water are sufficient. The export of rice is still going on.
	Nilphamari	4.47	4½	5	
	Kurigram ...	7.90	5½	(n)	
	Gaibandha ...	5.49	5	5	
17	BOGRA ...	7.70	5	5	Harvesting of <i>aus</i> paddy and steeping of jute continue. Prospects of jute are fair. Preparation of lands for transplanted winter paddy is going on. Fodder is insufficient in flooded area.
18	PABNA ...	8.07	5½	5	Prospects of jute and <i>aman</i> paddy are good and those of <i>aus</i> paddy are not good. Reaping of jute continues. Fodder is insufficient.
	Sirajganj ..	(n)	(n)	4½	
19	MALDA ..	7.37	5½	5½	Transplanting of winter paddy continues. Prospects of jute are fair. No damage to crop is reported. Fodder and water are sufficient. Cattle-disease is reported from Shibganj, Gomostapur, Bholahat and Englishbazar thanas.
20	COOCH BEHAR	10.38	6½	6½	Weather cloudy and rainy. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for winter paddy and transplantation of seedlings are in progress. Condition of jute and effects of weather on its growth are good. Cutting has commenced at places. Fodder is sufficient.
21	DACCA ...	5.41	{ 4½ to 4½ }	5	Weather seasonable. Standing crops are thriving well. Prospects of standing crops are good and those of jute are fair. Transplanting of <i>aman</i> paddy is in progress.
	Manikganj ...	7.01	4½	(n)	
	Narayanganj	7.12	4½	5	
	Munshiganj*	6.55	4½	4½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN MISRA, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
22	MYMENSINGH	Inches 10·80	4½	4½	Weather sultry. Transplantation of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Prospects of standing crops are good. No damage to jute is reported. Fodder and water are sufficient.
	Jamalpur ...	7·18	4½	4½	
	Tangail ...	(n)	(n)	(n)	
	Netrakona ...	7·01	4½	5½	
	Kishorganj...	4·54	4½	5	
23	FARIDPUR ...	4·01	4	5	Effects of weather are favourable to the standing crops. Harvesting of jute and <i>aus</i> paddy continues. Prospects are fair. Fodder is sufficient. Prices are rising.
	Goalundo ...	7·25	4½	5½	
	Madaripur ...	8·47	4½	5	
	Gopalganj*...	9·46	4½	5	
24	BAKARGANJ (BARISAL).	6·35	4½	5	Prospects of jute and other standing crops are fair. Weather is favourable to jute. No damage done to the crop. Harvesting has commenced. Fodder is sufficient. Cattle-disease is reported from Matbaria thana.
	Pirojpur ...	8·07	5	5½	
	Patuakhali...	13·29	5½	5½	
	Dakshin Shabazpur (Bhola).	8·30	4½	5	
25	CHITTAGONG	10·67	5½	5½	Prospects of standing crops are good. Transplantation of <i>bhadoi</i> paddy is going on. <i>Panga</i> salt is selling at 11 and 9 seers per rupee at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	11·64	5½	5½	
26	TIPPERA (COMILLA).	7·45	4½	4½	The prospects of <i>aus</i> paddy are fair and those of jute are good. Harvesting of jute is going on: 591 men and 50 children worked daily on an average in test works in Brahmanbaria subdivision. Rinderpest is still reported from Brahmanbaria subdivision.
	Brahmanbaria.	4·79	5	5½	
	Chandpur ...	7·62	4	4½	
27	NOAKHALI ...	10·92	4½	4½	Weather seasonable. Prospects of standing crops other than jute are good. Prospects of jute are fair in the Sadar subdivision and good in the Feni subdivision. Effects of weather on its growth are fair in Sadar and good in Feni subdivisions. Harvesting has commenced. Fodder sufficient.
	Feni ...	7·58	4½	4½	
28	CHITTAGONG HILL TRACTS.	6·05	5	5	Prospects of <i>jhum</i> crops are fair. Plough cultivation is in fair progress. Fodder is sufficient.

\* The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA, the 28th July 1919.



*Vital Statistics of the Towns with a population of 10,000*

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births).	Still-born number registered.	Cholera.	Small pox.	Plague.
Burdwan ...	1	Burdwan ...	20,527	15,394	35,921	36	...	1	19	...
	2	Raniganj ...	8,417	7,080	15,497	18	...	55	...	...
	3	Asansol ...	12,486	9,433	21,919	40	...	43	...	...
Bankura ...	4	Bankura ...	12,156	11,297	23,453	42	1	7	1	...
	5	Vishnupur ...	10,025	10,453	20,478	26	1	2	...	...
	6	Sonamukhi ...	6,254	7,021	13,275	12	...	...	...	...
Midnapore ...	7	Midnapore ...	17,577	15,163	32,740	45	2	3	3	...
	8	Ghatal ...	6,216	5,848	12,064	25	1	3	...	...
	9	Hooghly and Chinsura.	15,817	13,099	28,916	47	...	2	1	...
Hooghly ...	10	Serampore ...	19,639	12,439	32,078	30	...	34	3	...
	11	Rishra Konnagore...	10,724	6,792	17,516	23	...	74	2	...
	12	Baidyabati ...	Figures not available			16,131	14	...	14	...
	13	Bhadraswar ...				18,441	9	...	25	...
	14	Champdani ...				15,297	15	...	8	1
Howrah ...	15	Howrah ...	114,829	64,560	179,389	282	28	323	169	...
	16	Bally ...	14,217	8,177	22,394	26	2	30	2	...
	17	Cossipore-Chitpur ...	30,793	17,385	48,178	55	3	44	21	1
24-Parganas	18	Maniktala ...	31,735	22,032	53,767	64	9	44	23	...
	19	South Suburban ...	17,683	13,850	31,533	48	3	15	4	...
	20	Tollygunge ...	11,183	7,250	18,433	28	2	16	1	...
	21	Garden Reach ...	27,665	17,630	45,295	56	...	42	2	...
	22	Budge-Budge ...	11,529	6,453	17,982	12	...	42	...	...
	23	Baranagar ...	14,982	10,913	25,895	16	2	152	101	...
	24	Kamarhati ...	11,243	6,772	18,015	21	...	26	1	...
	25	Rajpur ...	5,762	5,845	11,607	21	1	11	1	...
	26	South Dum-Dum ...	7,760	5,114	12,874	18	...	5	2	...
	27	Barrackpore ...	11,357	6,944	18,301	8	...	2	...	1
	28	Pauhati ...	6,339	4,779	11,118	7	...	15	1	1
	29	North Barrackpore...	9,780	6,340	16,120	21	...	5	...	1
	30	Tittagarh ...	31,225	13,946	45,171	42	...	44	14	5
	31	Garulia ...	7,876	3,704	11,580	7	4	7	...	...
	32	Naihati ...	11,685	6,534	18,219	11	...	46	3	...
	33	Bhatpara ...	34,739	15,675	50,414	33	...	43	...	...
	34	Basirhat ...	9,517	8,814	18,331	39	...	5	1	...
Calcutta ...	35	Baduria ...	7,058	6,622	13,680	16	...	12	...	...
	36	Calcutta ...	607,674	288,393	896,067	1,125	84	1,050	408	118
	37	Krishnagar ...	11,767	11,708	23,475	26	...	16	...	...
Nadia ...	38	Nadia or Nabadwip	5,821	6,659	12,480	36	3	29	...	...
	39	Santipur ...	12,186	14,517	26,703	91	...	12	...	...



and over, of Bengal, for the month of April 1919.

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including epidemics.	Other causes.	Total all causes.			Total of corresponding month of previous year.			No.	Towns.
					Male.	Female.	Total.	Male.	Female.	Total.		
19	19	22	1	15	58	38	96	52	27	79	1	Burdwan.
15	2	...	2	10	55	29	84	15	12	27	2	Raniganj.
35	3	3	1	3	46	42	88	28	24	52	3	Asansol.
20	2	1	1	8	31	9	40	22	15	37	4	Bankura.
21	2	1	1	6	19	14	33	10	11	21	5	Vishnupur.
36	6	...	...	5	21	26	47	10	9	19	6	Sonamukhi.
23	6	16	2	12	39	26	65	29	26	55	7	Midnapore.
20	7	2	...	1	16	17	33	10	9	19	8	Ghatal.
18	4	19	2	9	29	26	55	32	28	60	9	Hooghly and Chinsura.
17	17	5	1	17	59	35	94	34	27	61	10	Serampore.
16	4	6	...	2	64	40	104	17	14	31	11	Rishra Konnagore.
27	3	3	...	3	21	29	50	13	13	26	12	Baidyabati.
10	3	...	1	2	29	12	41	6	4	10	13	Bhadreswar.
22	3	3	...	2	26	13	39	7	5	12	14	Champdani.
369	94	144	10	133	742	500	1,242	291	205	496	15	Howrah.
33	4	6	...	4	45	34	79	14	16	30	16	Bally.
61	6	31	3	28	118	77	195	78	58	134	17	Cossipore-Chitpur.
67	30	51	...	43	144	114	258	103	87	190	18	Maniktala.
9	6	8	1	4	20	27	47	38	36	74	19	South Suburban.
12	1	4	...	...	13	21	34	16	21	37	20	Tollygunge.
40	16	6	2	32	81	59	140	83	50	133	21	Garden Reach.
19	9	7	3	3	58	23	83	15	15	30	22	Budge-Budge.
23	17	10	1	10	210	104	314	29	24	53	23	Baranagore.
15	6	...	...	6	34	20	54	22	14	36	24	Kamarhati.
5	1	...	1	6	11	14	25	16	13	29	25	Rajpur.
12	3	1	...	4	11	16	27	13	11	24	26	South Dum-Dum.
14	1	3	1	3	14	11	25	4	6	10	27	Barrackpore.
6	3	5	...	4	19	16	35	8	8	16	28	Panihati.
13	2	4	...	7	15	17	32	18	8	26	29	North Barrackpore.
106	6	4	1	14	129	65	194	39	39	78	30	Titagarh.
10	1	2	...	...	12	8	20	5	7	12	31	Garulia.
6	5	2	...	4	36	30	66	15	12	27	32	Naihati.
23	2	3	...	2	51	22	73	35	21	56	33	Bhatpara.
17	...	1	...	7	13	18	31	26	27	53	34	Basirhat.
3	1	1	...	5	16	6	22	12	10	22	35	Baduria.
520	286	812	44	923	2,524	1,637	4,161	1,343	940	2,283	36	Calcutta.
11	2	11	...	3	20	23	43	23	10	33	37	Krishnagar.
22	5	...	...	3	31	28	59	12	16	28	38	Nadia or Nabadwip.
31	1	2	...	10	28	28	56	44	26	70	39	Santipur.



**Vital Statistics of the Towns with a population of 10,000**

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births.)	Still-born number registered.	Cholera.	Small- pox.	Plague.
Murshidabad	40	Borhampore ...	14,302	11,841	26,143	34	...	27	1	...
	41	Murshidabad ...	6,259	6,410	12,669	29	...	14	1	...
	42	Ajmanj ...	6,725	5,602	12,327	10	...	1	1	...
	43	Kandi ...	6,212	6,426	12,638	18	...	2	...	...
	44	Jangipur ...	5,498	5,915	11,408	24	...	18	...	...
Khulna	45	Khulna ...	7,983	5,013	12,996	19	...	2	...	...
	46	Satkhira ...	5,802	5,100	10,902	7	...	...	...	...
Rajshahi	47	Rampur-Boalia ...	13,057	10,349	23,406	45	1	7	2	...
Dinajpur	48	Dinajpur ...	9,648	6,297	15,945	19	...	...	1	...
Jalpaiguri	49	Jalpaiguri ...	7,547	4,218	11,765	47	...	7	...	...
Darjeeling	50	Darjeeling ...	11,631	7,374	19,005	17	...	...	1	...
Rangpur	51	Rangpur ...	10,509	5,920	16,429	19	...	...	3	...
Pabna	52	Pabna ...	10,056	9,218	19,274	29	...	6	4	...
	53	Sirajganj ...	13,236	11,541	24,777	12	...	1	3	...
Malda	54	English Bazar ...	7,697	6,625	14,322	24	...	21	3	...
	55	Nawabganj ...	11,122	12,200	23,322	27	...	63	...	...
Dacca	56	Dacca ...	63,091	45,460	108,551	202	5	20	149	...
	57	Narayanganj ...	18,738	9,188	27,926	68	...	14	3	...
Mymensingh	58	Mymensingh ...	13,462	6,391	19,853	42	1	36	1	...
	59	Netrakona ...	8,018	5,722	13,740	20	...	2	...	...
	60	Jamulpur ...	11,728	9,381	21,109	44	2	4	1	...
	61	Sherpur ...	8,516	7,075	15,591	31	...	2	...	...
	62	Kishoreganj ...	9,506	8,518	18,026	45	4	8	2	...
	63	Bajitpur ...	5,447	5,386	10,833	15	...	5	9	...
	64	Tangail ...	8,493	7,869	16,362	20	...	2	...	...
Faridpur	65	Faridpur ...	8,017	5,114	13,131	32	1	6	...	...
	66	Madaripur ...	10,549	8,524	19,073	55	1	1	...	...
Bakarganj	67	Barisal ...	15,488	6,985	22,473	17	...	12	...	...
	68	Pirojpur ...	6,523	5,473	11,996	49	1	10	...	...
Chittagong	69	Chittagong ...	18,779	9,987	28,766	82	1	5	...	...
Tippera	70	Comilla ...	13,706	8,986	22,692	53	...	12	1	...
	71	Brahmanbaria ...	11,671	10,624	22,295	51	...	3	4	...
	72	Chandpur ...	9,062	3,655	12,717	13	...	2	...	...
Total of month...			...	...	2,618,159	3,710	163	2,620	974	127
Total of corresponding month of previous year.			...	...	...	5,024	155	1,063	179	53
Increase + or decrease—			...	...	...	-1,314	+8	+1,557	+795	+74

**REMARKS—**

1. The above table is compiled from returns collected by the Municipalities and submitted to this office by the Civil Surgeons. Taken as a whole, the returns are in general correct, but in a few instances are obviously incomplete.
2. The vital statistics of Municipalities with a population of less than 10,000 have been excluded from this statement and incorporated in the statement of the Government of India, Education and Health Department.
3. The birth and death ratio per 1,000 per annum have been omitted from this statement according to the Government of India, Education and Health Department.

CALCUTTA,  
The 24th July 1919.



and over, of Bengal, for the month of April 1919—conold.

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.			No.	Town.
					Male.	Female.	Total.	Male.	Female.	Total.		
11	1	6	...	11	34	23	57	20	21	41	40	Berhampore.
22	1	...	1	1	18	22	40	19	18	37	41	Murshidabad.
16	...	1	1	2	12	10	22	20	25	45	42	Ajinganj.
6	...	2	1	10	12	9	21	17	22	39	48	Kandi.
26	...	...	...	...	27	17	44	20	19	39	44	Jaugipur.
14	3	2	1	8	18	12	30	9	5	14	45	Khulna.
5	...	1	...	...	1	5	6	3	...	3	46	Satkhira.
14	2	...	1	9	18	17	35	43	17	60	47	Rampur-Boalia.
6	...	3	2	...	5	7	12	9	11	20	48	Dinajpur.
10	5	9	...	1	17	15	32	18	15	33	49	Jalpaiguri.
19	2	6	...	5	19	14	33	19	19	38	50	Darjeeling
13	...	...	...	9	21	4	25	22	14	36	51	Rangpur.
9	1	...	1	9	19	11	30	14	11	25	52	Pabna.
9	2	3	...	2	10	10	20	18	24	42	53	Sirajganj.
9	3	...	...	1	25	12	37	24	16	40	54	English-Bazar.
20	1	...	...	6	42	48	90	20	12	32	55	Nawabganj.
119	15	10	7	90	228	182	410	108	84	192	56	Dacca.
21	6	4	...	22	39	31	70	26	19	45	57	Narayanganj.
38	10	7	1	8	71	30	101	45	17	62	58	Mymensingh.
8	1	...	...	2	6	2	8	2	7	9	59	Netrokona.
23	2	...	1	7	23	15	38	22	16	38	60	Jamalpur.
6	5	...	1	10	10	14	24	15	15	30	61	Sherpur.
1	2	3	1	3	12	8	20	12	8	20	62	Kishoreganj.
7	...	...	...	3	13	11	24	11	20	31	63	Bajipur.
2	...	...	...	2	3	3	6	46	40	86	64	Tangail.
27	1	1	...	4	23	16	39	26	24	50	65	Faridpur.
6	...	...	...	15	9	15	24	43	36	79	66	Madaripur.
13	1	...	...	3	18	11	29	9	13	22	67	Barisal.
4	2	1	...	3	8	12	20	5	11	16	68	Pirojpur.
10	1	...	...	13	17	12	29	19	26	45	69	Chittagong.
14	3	...	...	3	18	15	33	13	13	26	70	Comilla.
12	2	12	1	16	27	23	50	68	74	142	71	Brahmanbaria
3	2	1	...	5	8	5	13	10	5	15	72	Chandpur.
2,266	663	1,271	99	1,636	5,739	3,917	9,656	...	...	...		
1,555	577	759	131	1,624	3,362	2,579	5,941	3,362	2,579	5,941		
+711	+86	+512	-32	+12	+2,377	+1,338	+3,715	...	...	...		

whole the table possesses a relative value, although the figures for individual towns probably only approximate to the actual in a proportion

porated in the returns for districts—vide Bengal Government, Municipal Department, letter No. 118San., dated the 8th February 1918.

tion Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



**Vital Statistics of the Districts, excluding Towns, of Bengal, with a population**

Division.	No.	Districts.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births).	Still-born number registered.	Cholera.	Small- pox.	Plague
Burdwan ...	1	Burdwan ...	728,894	736,140	1,465,034	3,404	10	1,272	47	...
	2	Birbhum ...	463,888	471,635	935,473	2,325	53	869	53	...
	3	Bankura ...	534,150	547,314	1,081,464	3,535	2	334	64	...
	4	Midnapore ...	1,386,921	1,389,476	2,776,397	6,509	170	1,528	144	...
	5	Hooghly and Seram- pore.	481,989	484,729	966,718	1,727	1	346	93	...
	6	Howrah ...	369,595	372,124	741,719	1,792	17	375	146	...
Presidency ...	7	24-Parganas ...	1,005,789	941,802	1,947,591	3,879	30	1,290	70	...
	8	Nadia ...	782,806	772,382	1,555,188	3,896	68	1,923	83	...
	9	Murshidabad ...	639,301	657,788	1,297,089	3,826	138	1,672	28	...
	10	Jessore ...	901,092	857,172	1,758,264	3,739	146	981	28	...
	11	Khulna ...	695,794	647,074	1,342,868	2,897	80	533	2	...
Rajshahi ...	12	Rajshahi ...	742,149	715,032	1,457,181	4,531	223	736	64	...
	13	Dinajpur ...	880,228	791,690	1,671,918	5,751	151	145	1,056	...
	14	Jalpaiguri ...	482,681	408,214	890,895	2,455	172	997	144	...
	15	Darjeeling ...	130,463	116,082	246,545	642	30	169	43	...
	16	Rangpur ...	1,244,208	1,124,693	2,368,901	7,021	373	918	1,237	...
	17	Bogra ...	502,526	481,041	983,567	2,583	84	350	165	...
	18	Pabna ...	700,299	684,236	1,384,535	3,418	163	1,622	600	...
	19	Malda ...	479,728	486,787	966,515	2,752	63	712	96	...
Dacca	20	Dacca ...	1,395,861	1,428,114	2,823,975	7,538	324	1,749	180	...
	21	Mymensingh ...	2,274,431	2,136,477	4,410,908	10,940	430	1,805	338	...
	22	Faizpur ...	1,056,398	1,033,317	2,089,710	5,261	132	1,388	76	...
	23	Bakarganj ...	1,222,824	1,171,618	2,394,442	7,010	126	1,267	24	...
Chittagong ...	24	Chittagong ...	704,058	775,609	1,479,667	3,828	324	1,295	16	...
	25	Noakhali ...	645,898	656,192	1,302,090	3,334	209	529	62	...
	26	Tippera ...	1,208,642	1,163,792	2,372,434	5,659	295	1,060	337	...
	27	Chittagong Tracts.	Hill							Not under
Total of month for Bengal ...			21,660,558	21,050,530	42,711,088	110,252	3,814	25,865	5,196	...
Total of corresponding month of previous year ...			...	...	...	154,011	5,972	15,122	1,518	2
Increase + or decrease - ...			...	...	...	43,759	-2,158	10,743	3,678	-2

REMARKS—1. The above table is compiled from returns collected by the thana police officers and submitted to this office by the to the actual.  
 2. The vital statistics of municipalities with a population of less than 10,000 have been included in this statement with  
 3. Divisional totals and the birth and death ratios per 1,000 per annum have been omitted from the statement according

CALCUTTA.  
 The 24th July 1919.



of 10,000 and over, for the month of April 1919.

REGISTERED.												Number.	Districts.
Fever.	Dysentery and Diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.					
					Male.	Female.	Total.	Male.	Female.	Total.			
5,369	116	27	17	625	3,840	3,633	7,473	3,274	2,809	6,083	1	Burdwan.	
3,253	15	2	9	273	2,410	2,064	4,474	1,800	1,489	3,289	2	Birbhum.	
3,113	45	4	14	661	2,235	2,000	4,235	1,681	1,479	3,110	3	Bankura.	
7,644	142	33	52	1,006	5,532	5,017	10,549	3,772	3,392	7,164	4	Midnapore.	
2,181	111	33	36	275	1,666	1,419	3,075	1,556	1,311	2,867	5	Hooghly and Serampore.	
1,001	296	48	38	292	1,217	978	2,195	993	894	1,892	6	Howrah.	
2,457	49	54	84	418	2,479	1,943	4,422	2,212	1,734	3,946	7	24-Parganas.	
5,288	13	18	37	472	4,276	3,558	7,834	3,037	2,557	5,594	8	Nadia.	
4,041	21	26	26	488	3,262	3,040	6,302	3,165	2,664	5,829	9	Murshidabad.	
3,433	15	6	60	300	2,678	2,145	4,823	2,158	1,825	3,983	10	Jessore.	
2,032	19	3	51	693	1,826	1,507	3,333	1,661	1,423	3,084	11	Khulna.	
4,533	1	3	40	341	3,091	2,627	5,718	2,831	2,231	5,062	12	Rajshahi.	
4,368	7	2	25	120	3,185	2,538	5,723	3,362	2,729	6,091	13	Dinajpur.	
2,691	124	23	16	145	2,367	1,773	4,140	1,835	1,446	3,281	14	Jalpaiguri.	
769	67	9	4	104	641	524	1,165	617	516	1,133	15	Darjeeling.	
6,151	11	3	21	58	4,711	3,688	8,399	4,003	3,056	7,059	16	Rangpur.	
1,608	22	6	26	183	1,274	1,086	2,360	1,144	975	2,119	17	Bogra.	
4,137	25	...	27	160	3,522	3,049	6,571	3,355	2,703	6,058	18	Pabna.	
2,170	2	...	19	194	1,731	1,462	3,193	1,626	1,347	2,973	19	Malda.	
4,579	180	18	63	1,295	4,488	3,576	8,064	4,533	3,662	8,195	20	Dacca.	
7,539	103	22	48	1,013	5,796	5,072	10,868	5,471	4,546	10,017	21	Mymensingh.	
4,234	84	20	71	819	3,533	3,159	6,692	4,970	4,331	9,301	22	Faridpur.	
4,784	69	6	115	1,808	4,456	3,617	8,073	3,470	2,833	6,303	23	Bakarganj.	
3,462	35	1	52	96	2,599	2,378	4,977	2,175	2,209	4,384	24	Chittagong.	
2,580	57	2	41	407	1,959	1,749	3,676	3,177	3,089	6,266	25	Noakhali.	
3,578	258	15	57	860	3,506	2,659	6,165	2,754	2,335	5,089	26	Tippera.	
registration.											27	Chittagong Hill Tracts.	
97,015	1,886	384	1,049	13,105	78,270	66,231	144,501				...		
92,312	2,579	407	1,233	16,999	7,0587	59,585	130,172	70,587	59,585	130,172			
+4,703	-693	-23	-184	-3,893	+7,683	+6,646	+14,329						

Civil Surgeons. Taken as a whole the table possesses a relative value, although the figures for individual districts probably only approximate those of the respective districts as per Government of Bengal, Municipal Department, Order No. 1182 an., dated the 8th February 1918. to the Government of India, Education Department, Order No. 93, dated the 28th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, i.e., by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the months of April and May, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta by rail, river, canal, road, and sea (coastwise) during the months of April and May, 1919, amounted to 4,294,000 maunds, as against 2,317,000 maunds in the corresponding period of the preceding year,—an increase of 85 per cent. There was an increase (55 per cent) in the imports of coal and coke (17,679,000 maunds as against 11,388,000 maunds last year). The imports by rail, river, road, and sea (coastwise) of Indian cotton piecegoods showed an increase of 96 per cent, the total value amounting to Rs. 1,14,15,000 as against Rs. 58,07,000 in 1918. The quantity of indigo imported during the months of April and May, 1919, decreased from 3,000 maunds to 112 maunds. The imports of raw jute amounted to 398,000 bales as against 525,000 bales,—a decrease of 24 per cent. The importations of gunny bags also showed a decrease of 33 per cent (46 million bags as against 69 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 60 per cent from 986,000 maunds to 1,580,000 maunds. The imports of sugar decreased by 10 per cent from 148,000 maunds to 133,000 maunds and those of tea by 5 per cent from 309,000 maunds to 292,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta by all routes during the months of April and May, 1919, increased by 24 per cent (Rs. 5,46,70,000 as against Rs. 4,39,72,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) decreased from 203 million bags to 182 million bags. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) decreased from 801,000 maunds to 675,000 maunds, or by 16 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Dock.

† One maund of paddy is equivalent to 25 seers of rice.



TABLE I

*Trade of Calcutta in certain selected articles for the two months, April and May, 1919, compared with the corresponding months of 1918.*

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COAST-WISE)	
	April and May, 1919	April and May, 1918	April and May, 1919	April and May, 1918
<b>Food-grains—</b>				
Rice ... .. Mds	3,791,404	3,045,404	749,034	953,354
Paddy ... .. "	804,806	418,028	51,677	...
Total (in rice) (b) ... .. "	4,596,210	3,463,432	800,711	953,354
Wheat ... .. "	252,476	1,069,308	21,030	14,295
Wheat flour ... .. "	19,041	10,880	66,543	66,523
Gram and pulse ... .. "	1,331,374	1,038,423	325,394	291,307
Other food-grains ... .. "	191,170	96,179	12,883	14,483
Total food-grains ... .. "	6,378,866	4,630,460	1,335,858	1,331,463
Coal and Coke ... .. "	17,679,445	11,389,328	1,308,078	525,520
Cotton, raw ... .. Balus	13,319	37,044	12,867	4,460
.. twist and yarn, Indian ... .. Mds	49,617	42,437	36,899	16,967
.. piece goods, Indian ... .. Rs	1,14,15,253	68,07,128	65,858	2,39,189
Indigo ... .. Mds	112	2,998	1,028	8,892
Jute, raw ... .. Balus	397,716	534,657	344,860	274,712
.. gunny bags ... .. No	45,898,921	68,689,830	169,948,163	181,519,967
Lac ... .. Mds	73,900	83,714	69,436	63,393
Oilseeds—Linseed ... .. "	891,644	102,613	652,778	95,410
.. Rape and mustard ... .. "	689,977	592,779	7,108	84,635
Silk, raw ... .. "	242	79	1,041	677
Sugar—Refined ... .. "	14,478	40,124	14,416	3,745
.. Unrefined ... .. "	118,180	106,130	301	111
Tea (Indian) ... .. "	298,069	306,673	491,720	516,394
Tobacco—unmanufactured ... .. "	163,699	113,951	39,743	10,496
.. manufactured ... .. "	11,417	15,390	1,945	962
	IMPORTS.		EXPORTS	
	BY SEA (FOREIGN AND COAST-WISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April and May, 1919	April and May, 1918	April and May, 1919	April and May, 1918
Cotton twist and yarn—foreign ... .. Mds	3,181	11,513	30,726	37,001
.. .. —Indian ... .. "	2,780	24	91,720	65,007
.. piece goods—foreign ... .. Rs	2,27,04,408	2,60,12,006	5,46,69,547	4,29,72,310
.. .. —Indian ... .. "	28,409	1,800	1,22,68,236	43,12,464
Kerosene oil (c) ... .. Mds	818,233	968,608	674,970	801,078
Salt ... .. "	922,997	1,335,839	1,812,314	1,368,430
Gunny bags ... .. No	...	...	27, 94,176	29,119,811

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 35 seers of rice.

(c) Including figures of Budget-Budget trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River,

Whence Imported	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b) (c)
	Rice and paddy			Wheat	Wheat flour	Gram and pulses	Other food-grains	Total				
	Rice	Paddy (a)	Total (in rice)									
BENGAL.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.
Burdwan	69,406	94,010	129,380	.....	2	1,740	.....	130,122	6,960,839	9	.....	1,920
Hidkum	72,489	409	72,143	.....	.....	.....	.....	72,143	.....	1	.....	1,280
Bankura	209	22,806	14,328	3	.....	.....	.....	14,830	.....	4	.....	1,020
Midnapur	267,180	4,807	260,069	.....	.....	10,099	.....	270,168	.....	12	12	87,379
Houghly	241,090	72,886	286,660	228	217	8,571	140	296,003	11,983	11	6,769	1,44,266
24-Parganas	846,721	229,120	736,177	406	22	6,570	1,026	743,199	20,602	203	5,266	1,29,800
Nadia	23,669	27,470	46,278	11,239	4,080	181,736	8,225	259,228	.....	60	8	10,090
Murshidabad	22,799	272	22,970	2,712	203	20,311	2,704	26,001	.....	7	.....	1,280
Jessore	20,676	28,710	28,621	100	65	82,424	.....	121,120	.....	81	9	480
Khulna	105,671	157,610	204,077	688	.....	13,039	.....	217,784	.....	45	.....	.....
Rajshahi	234	109	402	9,688	990	26,209	.....	46,368	.....	.....	.....	4,480
Dinajpur	17,109	22,292	27,254	.....	.....	1,928	171	29,453	.....	13	.....	180
Jaipur	247	621	516	.....	.....	.....	.....	516	.....	.....	.....	840
Darjeeling	444	1,629	1,400	.....	.....	.....	.....	1,400	.....	.....	.....	180
Hongkong	4,122	2,112	8,028	8,849	5	4,247	.....	16,899	.....	118	.....	960
Bogra	7,896	26,259	24,608	.....	.....	1,179	.....	25,187	.....	20	.....	.....
Patna	880	.....	680	22,676	928	95,867	.....	119,068	.....	.....	36	.....
Malda	402	.....	402	5,298	1,193	4,321	816	12,029	.....	.....	14	.....
Cooch Behar	417	.....	417	26	199	.....	.....	641	.....	.....	.....	.....
Dacca	3,462	1	3,463	1,296	.....	10,094	6,396	20,248	.....	4,903	16	4,179
Mymensingh	914	.....	914	448	.....	8,443	8,681	18,386	.....	342	5	2,660
Faridpur	10,192	2,268	12,227	10,280	661	72,629	.....	96,992	.....	.....	2	.....
Bakerganj	296,102	1,022	296,761	.....	.....	1,996	.....	298,747	.....	1	5	160
Tippura (including Hill Tippura)	276	297	461	.....	.....	.....	996	1,257	.....	.....	.....	.....
Noakhali	2	.....	2	.....	.....	783	.....	786	.....	.....	.....	1,993
Chittagong	56,616	.....	56,616	.....	.....	2,762	.....	59,378	.....	2,214	.....	.....
Chittagong Port	284	.....	284	.....	.....	.....	.....	284	.....	.....	.....	.....
Total of Bengal	1,898,327	726,192	2,852,191	72,661	8,762	602,724	26,462	3,067,491	6,893,273	9,215	12,229	4,13,467
OTHER PROVINCES AND PLACES												
Bihar and Orissa	629	2,899	2,461	25,489	295	292,479	66,401	487,216	10,766,118	107	232	26,680
Assam	98,086	26,218	145,045	220	24	2,922	184	145,666	51	1	12	2,080
U. P. of Agra and Oudh	812	.....	812	279,724	8,719	101,608	2,228	293,101	.....	726	98	2,41,660
Punjab	149	.....	149	2,892	1,120	48,986	.....	62,160	.....	2,810	165	3,478
Sind and British Baluchistan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Central Provinces and Berar	.....	6	6	.....	.....	812	125	452	.....	15,766	9,910	4,18,082
Bombay	.....	.....	.....	.....	1	.....	.....	1	.....	1,932	17,490	26,08,009
Madras	.....	.....	.....	1,187	.....	9,529	.....	9,726	.....	2,214	5,424	16,97,796
Burma	1,794,221	.....	1,794,221	.....	.....	201,790	62,167	2,080,378	.....	176	.....	.....
Nepal and Central India	260	.....	260	.....	.....	.....	444	704	.....	.....	.....	1,69,240
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mysore	.....	.....	.....	.....	.....	.....	1,189	1,189	.....	166	.....	24,000
Grand Total	1919 2,791,604	804,806	4,394,296	192,476	10,041	1,361,874	191,170	6,239,666	17,679,446	24,219	46,737	1,13,66,953
1918	2,053,804	418,029	2,217,071	1,069,908	10,280	1,025,422	96,179	4,530,460	11,388,228	27,044	42,403	69,08,228
1917	1,368,890	440,717	1,644,028	1,636,914	21,122	1,066,049	70,027	4,426,091	10,242,142	21,060	71,089	44,68,460

(a) One pound of paddy is equal to 1.5 pounds of rice.

(a) One munda of paddy is equivalent to 25 munda of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



II.

## Canal, and Sea (Coastwise) in the two months, April and May, 1919.

Indigo	JUTE		Lac	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO		Whence Imported
	Raw(d)	Gunny-bags(e)		Linseed	Rape and mustard		Refined	Un-refined		Unmanufactured	Manufactured	
Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL
.....	.....	11,327	1	93	999	.....	.....	1	.....	9	7	Burdwan
.....	.....	1,804	45	.....	1,446	.....	.....	5	.....	.....	.....	Birbhum
.....	.....	1,840	37	.....	.....	.....	.....	.....	.....	.....	30	Bankura
.....	514	16,341	.....	181	296	7	.....	15,361	.....	38	.....	Midnapur
.....	7,121	13,393,096	.....	424	540	.....	9	16,327	.....	4,044	526	Hooghly
.....	19,170	33,143,446	.....	278	2,039	.....	4,558	10,706	1	2,073	1,368	24-Pargannas
.....	2,285	7,286	.....	11,538	890	68	214	4,334	.....	2,848	3	Nadia
.....	2,089	1,107	269	6,192	130	52	.....	.....	.....	241	1,437	Murshidabad
.....	669	4,428	.....	197	807	.....	.....	28,307	.....	803	.....	Jessore
.....	1,471	8,289	.....	.....	476	.....	.....	600	.....	.....	.....	Khulna
.....	3,539	82	.....	9,379	2	.....	.....	.....	.....	.....	.....	Itanagarhi
.....	2,823	13,612	.....	.....	578	.....	.....	.....	.....	4	.....	Dinajpur
.....	17,057	1,086	13	.....	2,189	.....	.....	.....	65,623	32,928	3	Jalpaiguri
.....	1,746	860	.....	.....	.....	.....	.....	1	30,040	2,303	15	Darjeeling
.....	26,537	7,998	.....	1,726	.....	.....	.....	.....	.....	29,958	6	Rangpur
.....	7,130	1,645	.....	2,267	1,056	.....	.....	3	.....	.....	.....	Bogra
.....	46,808	4,182	.....	7,900	6,369	.....	.....	.....	.....	87	.....	Fabna
.....	1,084	41	.....	1,437	266	14	.....	.....	.....	.....	.....	Malda
.....	9,836	41	.....	.....	217	.....	.....	.....	.....	5,419	.....	Cooch Behar
.....	137,774	4,216	.....	293	1,174	.....	.....	37	.....	16	2	Dacca
.....	45,811	1,804	.....	553	1,515	.....	7	.....	.....	117	7	Mymensingh
.....	10,724	902	.....	2,165	4,088	.....	.....	.....	.....	91	.....	Faridpur
.....	720	3,168	.....	784	86	.....	.....	.....	.....	.....	.....	Bakerganj
.....	17,216	.....	.....	181	12	.....	.....	.....	.....	.....	.....	Tippura (including Hill Tippura)
.....	.....	.....	.....	391	.....	.....	.....	.....	.....	.....	.....	Noakhali
.....	.....	1,617	.....	.....	.....	.....	.....	.....	431	.....	.....	Chittagong
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chittagong Port
.....	328,361	45,616,733	265	45,899	29,420	141	4,783	85,493	96,088	85,079	3,414	Total of Bengal
												OTHER PROVINCES AND PLACES
96	40,602	59,674	47,679	543,413	52,377	.....	440	12,929	243	66,183	7,136	Bihar and Orissa
.....	28,953	21,894	5,020	56,440	22,341	101	1	2	194,718	.....	10	Assam
16	.....	149,281	14,890	220,008	426,427	.....	1,012	4,778	165	429	62	U. P. of Agra and Outh
.....	.....	297	.....	.....	112,392	.....	.....	.....	16	11	2	Punjab
.....	.....	1,107	.....	.....	8,996	.....	.....	.....	.....	.....	2	Sind and British Baluchistan
.....	.....	9,222	1,840	11,183	1,134	.....	.....	.....	5	.....	409	Central Provinces and Bihar
.....	.....	18,619	.....	.....	32,454	.....	824	.....	47	2,337	50	Bombay
.....	.....	820	67	690	1,182	.....	7,413	14,545	28	5,235	109	Madras
.....	.....	.....	2,774	.....	.....	.....	.....	323	.....	6,315	120	Burma
.....	.....	21,484	765	4,011	7,266	.....	.....	.....	19	.....	4	Rajputana and Central India
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nizam's Territory
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mysore
112	(f) 297,716	45,696,991	72,900	691,643	688,877	242	14,478	118,060	292,069	163,889	11,437	1919
2,926	584,667	64,689,630	82,714	302,913	592,779	79	40,124	108,120	308,672	112,951	15,190	1918
404	259,326	76,720,111	140,325	601,349	524,689	426	61,667	100,347	210,703	179,655	10,687	1917
												GRAND TOTAL

(d) Excludes imports into the mills outside the Calcutta block, which are 215,823 bales, but includes imports into the Kidderpore Docks, namely, 14,342 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.

(f) Of this 162,593 bales came by rail, 218,357 bales by river, 4,337 bales by road, and 12,539 bales by sea.



TABLE III

Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the two months, April and May, 1919.

Routes	FOOD-GRAINS						Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (c)	Indigo
	Rice	Paddy (a)	Wheat	Wheat flour	Gram and pulse	Other food-grains					
	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	No	Mds
By rail											
B. I. Railway...	131,981	117,309	909,930	20,251	475,807	63,240	19,646,113	2,749	498	4,60,849	16
B. B. Railway (including B. C. Railway)	346,839	210,040	61,009	8,426	490,157	4,269	1,129,689	576	73	1,10,947	96
A. B. Railway...	1,966	21	.....	...	821	.....	.....	.....	7	1,280	...
B. N. Railway...	94,447	23,906	2	...	19,308	1,394	2,927,663	20,227	23,967	1,04,19,989	...
B. & N. W. Railway	393	.....	104,743	1	72,169	12,772	.....	.....	11	1,760	...
D. S. Railway...	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	...
Kailash-Palta Railway	47,660	24,319	.....	.....	.....	.....	.....	.....	.....	.....	...
Howrah-Amra and Howrah-Bachhala Light Railways	20,600	2,341	.....	17	2	.....	.....	.....	.....	2,920	...
By river steamer											
Bengal Bihar and Orissa	197,249	5,602	7,455	.....	28,838	15,648	.....	4,412	26	97,532	...
Assam	37,728	60,984	829	30	101	184	51	1	6	640	...
U. P. of Agra and Oudh	.....	.....	9	14	245	.....	.....	4	.....	.....	...
By boat	980,676	248,020	2,038	322	97,606	1,176	1,082	41	9,231	1,06,200	...
By road	125,923	7,091	.....	.....	1,294	.....	25,007	199	2,876	1,77,726	...
By sea	1,796,329	.....	1,167	1	210,508	82,167	.....	1,007	.....	.....	...
Total											
1919	2,791,694	804,306	382,478	19,041	1,361,874	181,170	17,679,445	21,219	46,737	1,12,96,563	112
1918	2,065,504	418,028	1,069,208	10,680	1,038,423	93,179	11,348,228	27,044	42,402	58,06,328	2,996
1917	1,868,690	440,717	1,036,814	21,123	1,035,049	79,037	16,242,142	61,080	71,080	46,64,460	404

Routes	JUTE			OILSEEDS			Silk, raw	SUGAR		Tea Indian	TOBACCO	
	Raw (d)	Gunny bags (e)	Lac	Linseed	Rape and mustard	Silk, raw		Refined	Unrefined		Unmanufactured	Manufactured
	Bales of 400 lbs	No.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
By rail												
B. I. Railway...	7,614	210,986	22,242	227,576	907,666	.....	178	0,242	377	377	948	2,890
B. B. Railway (including B. C. Railway)	151,384	122,697	2,409	42,783	24,400	104	.....	21,160	109,144	122,219	122,219	1,468
A. B. Railway...	.....	17,384	22	4,522	.....	.....	1	.....	44,242	.....	.....	.....
B. N. Railway	663	68,980	22,351	11,034	4,124	.....	8,036	8,760	792	6,996	.....	670
B. & N. W. Railway	2,991	8,314	.....	539,990	124,036	.....	862	8,470	57	10,607	.....	.....
D. S. Railway	.....	.....	.....	.....	.....	.....	.....	.....	.....	22,694	.....	.....
Kailash-Palta Railway	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Howrah-Amra and Howrah-Bachhala Light Railways	141	10,783	.....	26	.....	.....	8	206	.....	.....	1	.....
By river steamer												
Bengal Bihar and Orissa	166,296	21,771	.....	6,826	4,822	7	7	2,432	421	151	.....	9
Assam	20,705	2,649	2,602	47,566	16,308	41	.....	.....	.....	2,427	4,259	.....
U. P. of Agra and Oudh	.....	287	.....	.....	169	.....	114	2	94,304	.....	.....	10
By boat	21,264	44,671,508	.....	2,342	4,299	.....	381	45,169	.....	4,208	.....	.....
By road	4,227	444,518	.....	20	.....	.....	4,202	12,296	.....	2,141	1,904	.....
By sea	12,539	8,570	2,274	.....	810	.....	498	213	20	6,587	209	.....
Total												
1919	297,716	45,896,921	72,900	691,643	688,277	242	14,478	118,080	292,069	162,589	11,427	.....
1918	274,687	68,689,820	82,714	892,013	592,779	79	40,124	108,120	208,672	112,061	18,290	.....
1917	259,226	78,120,311	140,235	601,249	424,589	425	61,667	100,847	210,703	179,535	10,657	.....

(a) One mound of paddy is equivalent to 25 mows of rice.

(b) Excluding trade by sea (consolidated).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mids outside the Calcutta block, which are 265,823 bales, but includes imports into the Kidderpore Docks, namely, 16,242 bales.

(e) Including gunny cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coastwise), in the two months, April and May, 1919.*

	COTTON TWIST AND YARN		COTTON PIECE-GOODS		Kerosene oil	Salt
	Foreign	Indian	Foreign	Indian		
<b>FOREIGN—</b>	Mds	Mds	Rs	Rs	Mds	Mds
From United Kingdom ... ..	1,599	.....	1,66,73,670	.....	8	376,512
“ Other countries ... ..	632	.....	46,43,430	.....	309,377	647,484
Total ..	2,231	.....	2,13,16,990	.....	309,385	923,997
<b>COASTWISE—</b>						
From British Ports in—						
Bihar and Orissa ... ..	14	.....	.....	.....	.....	.....
Bombay ... ..	827	2,719	2,08,965	...	.....	.....
Burma ... ..	119	61	11,79,753	28,400	609,040	.....
Total ..	960	2,780	12,88,718	28,400	609,040	.....
1919 ...	3,191	2,780	2,37,04,808	28,400	918,322	923,997
GRAND TOTAL ... 1918 ...	11,812	34	2,60,12,006	1,800	969,606	1,556,889
1917 ...	12,829	146	2,04,66,113	4,550	1,021,411	1,309,390



TABLE V

*Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the two months, April and May 1919.*

	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat four	Gram and pulse	Other food-grains	Total				
<i>Coastwise—</i>	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs
To British Ports in—												
Bengal ...	17	.....	17	.....	25	10	.....	74	.....	.....	.....	4,750
Bihar and Orissa	10,083	6,866	16,949	.....	225	2,158	.....	16,983	.....	.....	886	.....
Madras ...	373,774	75,604	449,378	5,656	824	229,065	30	603,776	.....	.....	.....	.....
Burma ...	3,843	.....	3,843	15,168	53,663	23,890	6,359	110,969	26,171	162	28,094	76,826
Total ...	386,717	81,672	468,389	15,824	55,069	264,748	6,389	781,782	26,171	162	28,919	81,856
<i>To Foreign countries—</i>												
United Kingdom	4	.....	4	80	.....	273	.....	287	.....	222	.....	.....
Other countries	362,312	.....	362,312	2,186	11,482	70,272	6,464	452,719	1,362,907	12,162	6,727	4,300
Total ...	362,317	.....	362,317	2,266	11,482	70,546	6,464	452,976	1,362,907	12,324	6,727	4,300
GRAND TOTAL												
1919 ...	749,034	81,672	830,706	21,090	66,551	335,294	12,853	1,325,858	1,398,078	12,667	25,680	85,856
1918 ...	362,354	.....	362,354	14,996	66,622	294,207	14,482	1,361,862	679,820	4,660	16,987	2,20,189
1917 ...	125,209	.....	125,209	12,202	121,942	167,911	9,141	466,306	5,218,061	17,990	16,961	10,02,986

	Indigo	JUTE		Lac	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO	
		Raw	Gunny bags (b)		Linseed	Rape and mustard		Refined	Un-refined		Un-manufactured	Manufactured
<i>Coastwise—</i>	Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
To British Ports in—												
Bengal ...	.....	.....	140	.....	.....	.....	.....	786	11	1	65	27
Bihar and Orissa	.....	.....	4,700	.....	.....	126	.....	383	.....	.....	478	44
Madras ...	108	7	10,400	106	.....	578	.....	7,607	.....	.....	.....	.....
Burma ...	.....	107	7,607,918	139	.....	1,671	.....	1,848	286	1,674	6,849	607
Total ...	108	114	7,608,398	244	.....	2,380	.....	10,294	297	1,675	7,392	678
<i>To Foreign countries—</i>												
United Kingdom	730	211,676	22,270,080	9,857	498,484	.....	629	2	.....	446,114	8,662	17
Other countries	187	123,670	123,994,886	69,624	154,294	4,726	612	4,120	4	22,921	10,809	1,220
Total ...	917	344,846	155,264,966	69,141	652,778	4,726	1,041	4,122	4	469,045	19,371	1,237
GRAND TOTAL												
1919 ...	1,025	344,860	155,264,966	69,141	652,778	7,106	1,041	14,416	201	469,720	26,763	1,245
1918 ...	6,892	275,712	121,519,967	68,292	15,410	64,636	637	3,744	111	516,894	10,496	962
1917 ...	6,740	217,146	100,020,012	67,615	206,846	25,920	677	753	604	247,471	24,762	1,246

(a) One maund of paddy is equivalent to 25 acres of rice.  
(b) Including gunny cloth, 2 yards of cloth = 1 bag.



TABLE VI

**Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the two months, April and May, 1919.**

Whither exported	COTTON TWIST & YARN		COTTON PIECEGOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budget Budget	
BENGAL	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
Burdwan ... ..	53	1,330	10,54,386	66,340	254,470	7,137	94,471	55,979
Birbhum ... ..	17	3,839	6,56,937	30,560	94,646	68	7,169	37,653
Bankura ... ..	83	1,805	3,07,480	640	69,778	8	...	21,947
Midnapur ... ..	3,890	3,883	19,00,803	94,660	141,479	7,033	17,370	31,376
Hooghly ... ..	1,773	127	17,05,386	25,691	67,697	13,327	39,131	37,035
24-Parganas ... ..	384	736	1,70,333	63,363	291,036	17,576	26,980	43,609
Nadia ... ..	654	7,631	31,53,657	2,34,340	377,637	534	13,691	58,436
Murshidabad ... ..	57	2,608	10,77,460	97,930	236,230	...	17,131	55,953
Jessore ... ..	566	1,532	5,69,428	1,30,800	55,854	819	7,994	33,234
Khulna ... ..	682	318	4,30,770	1,36,640	55,196	1,303	6,983	16,016
Rajahmudi ... ..	24	184	8,26,750	75,900	77,900	60	2,832	22,329
Divanpur ... ..	...	640	9,73,311	2,44,960	133,419	11	6,392	37,030
Jalpaiguri ... ..	13	1,129	8,64,990	2,33,730	89,421	384	2,808	23,018
Darjeeling ... ..	371	687	7,39,369	43,040	78,474	181	5,977	36,932
Raigpur ... ..	96	1,004	18,05,392	2,90,240	80,883	12	7,004	99,993
Bogra ... ..	...	438	12,54,839	5,45,640	89,344	8	6,161	61,735
Pabna ... ..	1,675	1,320	11,46,920	4,85,350	140,794	19	39,537	42,889
Malda ... ..	5	1,480	4,92,073	1,63,940	77,941	...	...	20,115
Osach Behar ... ..	...	161	5,59,816	68,100	64,836	19	2,510	23,233
Dacca ... ..	5,256	1,019	16,96,895	2,37,661	56,170	290	67,495	86,880
Mymensingh ... ..	1,636	898	10,53,483	11,78,991	34,683	68	9,767	99,670
Faridpur ... ..	2,736	633	11,06,635	2,40,400	102,459	313	2,190	49,236
Baharganj ... ..	2,373	44	4,62,071	5,26,720	188,043	60	2,428	26,159
Tippore (including Hill Tippore) ... ..	1,432	2,002	9,75,174	31,542	90,184	96	...	33,603
Naokhal ... ..	803	2,303	3,18,346	96,160	11,903	...	...	836
Chittagong ... ..	1,014	104	1,45,468	57,380	141,204	23	...	394
Chittagong Port ... ..	14	328	6,38,343	1,38,930	4,141	...	...	...
<b>Total of Bengal</b> ... ..	<b>27,334</b>	<b>36,549</b>	<b>2,37,33,068</b>	<b>57,68,577</b>	<b>3,023,717</b>	<b>49,111</b>	<b>397,291</b>	<b>1,087,669</b>
<b>OTHER PROVINCES AND PLACES</b>								
Bihar and Orissa ... ..	3,323	23,061	1,45,41,910	33,71,667	3,373,787	1,534	158,363	576,323
Assam ... ..	2,106	3,376	28,77,948	9,62,905	393,641	1,900	1,303	139,760
U. P. of Agra and Oudh ... ..	534	739	64,65,347	12,51,333	2,996,156	471	140,638	6,441
Punjab ... ..	678	168	26,14,002	48,060	2,063,218	9	11,849	8
Sind and British Baluchistan ... ..	...	...	1,06,789	...	1,141,686	...	...	...
Central Provinces and Berar ... ..	...	276	4,00,343	30,677	696,754	253	3,345	1,104
Bombay ... ..	33	1	4,60,337	...	2,337,674	...	...	...
Madras ... ..	378	1,376	2,48,610	1,55,879	2,009,069	753	...	...
Burma ... ..	4,431	28,094	8,71,896	76,576	7,667,918	...	...	14
Rajputana and Central India ... ..	29	168	3,25,817	8,323	443,466	368	7,536	...
Kashmir State ... ..	...	...	1,386	...	...	...	...	...
Nizam's Territory ... ..	...	3	1,70,346	960	69,773	637	...	...
Mysore ... ..	...	...	...	...	103,379	...	...	...
Port Blair ... ..	...	...	2,100	4,730	140	...	...	...
<b>GRAND TOTAL</b> ... ..	<b>1919</b> ...	<b>29,736</b>	<b>92,770</b>	<b>5,46,69,547</b>	<b>1,23,28,326</b>	<b>27,298,176</b>	<b>58,006</b>	<b>619,964</b>
<b>1918</b> ...	<b>37,901</b>	<b>65,002</b>	<b>4,39,72,310</b>	<b>43,13,464</b>	<b>29,119,311</b>	<b>62,583</b>	<b>747,495</b>	<b>1,366,430</b>
<b>1917</b> ...	<b>28,325</b>	<b>69,530</b>	<b>4,45,39,354</b>	<b>48,26,784</b>	<b>30,577,109</b>	<b>63,661</b>	<b>832,633</b>	<b>1,323,093</b>

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 3 yards of cloth = 1 bag.

‡ The exports of kerosene oil from Budget-Budget to Calcutta were 183,491 maunds in the two months, April and May, 1919, as against 313,691 maunds and 145,748 maunds in the corresponding months of 1918 and 1917, respectively.



TABLE VII

*Statement of the Routes by which the Articles enumerated in Table No. VI were exported from the Calcutta Trade Block in the months of April and May, 1919*

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny-bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budge-Budge	
	Mds	Mds	Rs	Rs	No	M ls	Mds	Mds
E. I. Railway ...	2,030	14,817	1,37,03,018	18,03,880	4,394,746	7,902	217,917	339,369
E. B. Railway (including B. O. Railway)	931	22,386	1,35,68,034	37,71,020	1,912,987	4,107	111,211	636,607
A.-D. Railway ...	468	6,333	36,51,480	2,98,095	66,625	590	114	24,179
B.-N. Railway ...	614	12,785	16,66,844	4,69,692	1,179,837	1,877	400	189,418
B. & N.-W. Railway ...	68	2,365	96,33,808	22,49,974	1,731,766	166	51,164	139,928
O. & R. Railway ...	166	26	17,66,417	1,33,909	474,063	378	65,877	14
Howrah-Amta and Howrah-Bankura Light Railways	490	...	1,28,276	...	16,393	2,847	...	8,639
By rail ...								
N.-W. Railway ...	317	22	6,78,611	4,480	2,664,836	9	2,012	...
U. I. P. Railway ...	67	...	6,88,606	11,921	2,476,867	279	702	...
B. R. & O. I. Railway ...	73	143	2,73,929	610	465,063	102	426	...
M. & S. M. Railway ...	80	395	1,61,929	73,600	1,069,642	628	...	...
E. I. Railway ...	...	...	...	2,638	277,898	...	...	...
J. B. Railway ...	...	9	47,995	2,450	22,878	...	219	...
N. G. S. Railway ...	...	3	1,20,346	960	27,720	627	...	...
Other Railways ...	24	1	1,16,643	26,962	60,188	220	6,091	2,277
By rail ...								
Bengal ...	22,379	2,670	60,03,847	24,17,794	632,999	447	112,046	319,169
Bihar and Orissa ...	463	162	1,08,320	48,040	1,110,116	8	...	461
By river steamer								
Assam ...	2,620	890	18,10,487	7,62,300	289,490	1,141	220	80,116
U. P. of Agra and Oudh ...	19	6	37,437	8,960	106,149	...	...	...
By boat	1,677	...	1,64,060	2,200	59,139	12,706	47,410	149,730
By road	1,493	128	1,93,623	1,11,562	94,637	20,071	1,684	26,724
By sea	6,369	28,949	6,74,996	81,566	7,632,266	...	2,080	1,665
Total								
1919 ...	39,786	92,720	5,46,69,647	1,32,66,226	27,296,176	56,006	619,966	1,612,318
1918 ...	37,901	66,002	4,39,72,210	42,12,464	29,110,311	52,682	747,496	1,266,480
1917 ...	28,826	69,620	4,43,59,264	44,26,784	29,877,109	62,861	822,622	1,632,062

\* The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.  
† Including gunny cloth, 2 yards of cloth = 1 bag.

DEPARTMENT OF STATISTICS, INDIA,

G. FINDLAY SHIRRAS,

July 29, 1919.

Director of Statistics.







Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 24th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	19th July 1919	18.87	101.83'	120.70'	1.00'	...	117.70'	115.40'	
	... { Rajmahal ...	19th "	21.60	56.319'	77.919'	0.60'	...	77.61'	74.41'	
	... { Goalundo ...	19th "	21.70	...	...	Steady	...	21.80'	22.20'	
Brahmaputra	Gauhati ...	19th "	27.00	148.76'	175.76'	Steady	...	176.16'	176.76'	
	... { Serajganj ...	19th "	40.90	...	...	0.20'	...	...	...	
	... { Dibrugarh ...	19th "	18.70	...	...	...	1.30'	...	...	
Meghna	Bhairab Bazar	19th "	15.33	1.61'	16.94'	0.16'	...	...	...	
	... { Chandpur ...	19th "	11.83	1.61'	13.44'	0.33'	...	...	...	
	... { Fenchuganj ...	19th "	24.70	...	...	0.40'	...	...	...	
Dhaleswari	... Sabhar ...	19th "	27.80	8.62'	19.18'	0.30'	...	...	...	
Bhagirathi	... Swarupganj	19th "	19.29	1.509'	20.799'	...	0.39'	19.40'	15.59'	
Damodar	... Edilpur ...	19th "	12.17	92.58'	104.75'	3.31'	...	...	...	
Lakhya	... Narayanganj	19th "	21.40	5.59'	15.81'	0.40'	...	...	...	
Madaripur Bill Route	... Takerhat ...	19th "	11.30	0.599'	10.701'	0.20'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 24th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on Gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	20th July 1919	19.37	101.83'	121.20'	0.50'	...	117.40'	115.70'	
	... { Rajmahal ...	20th " "	22.25	56.319'	78.569'	0.65'	...	77.56'	74.61'	
	... { Goalundo ...	20th " "	22.20	...	...	0.50'	...	21.90'	22.40'	
Brahmaputra	Gauhati ...	20th " "	26.80	148.76'	175.56'	...	0.20'	175.76'	176.36'	
	... { Seraiganj ...	20th " "	40.50	...	...	0.40'	...	...	...	
	... { Dibrugarh ...	20th " "	18.00	...	...	...	0.70'	...	...	
Meghna	Bhairab Bazar	20th " "	15.67	1.61'	17.28'	0.34'	...	...	...	
	... { Chandpur ...	20th " "	12.08	1.61'	13.69'	0.25'	...	...	...	
	... { Fenchuganj ...	20th " "	25.10	...	...	0.40'	...	...	...	
Dhaleswari	Sabhar ...	20th " "	28.10	- 8.62'	19.48'	0.30'	...	...	...	
Bhagirathi	... { Swarupganj ...	20th " "	20.04	1.509'	21.549'	0.75'	...	19.25'	15.48'	
Damodar	... { Edilpur ...	20th " "	12.83	92.58'	105.41'	0.66'	...	...	...	
Lakhya	... { Narayanganj ...	20th " "	21.56	- 5.59'	15.97'	0.16'	...	...	...	
Madaripur Bil Ronte	Takerhat ...	20th " "	11.80	- 0.599'	11.201'	0.50'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 25th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DATE HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DAY IN—		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	Monghyr ...	21st July 1919	6 A.M. ...	19.67'	101.83'	121.50'	0.30'	117.40'	116.40'	
	... { Rajmahal ...	21st "	6 "	22.90'	56.319'	79.219'	0.65'	77.36'	74.86'	
	... { Goalundo ...	21st "	8 hours ...	22.50'	...	...	0.30'	22.00'	22.50'	
Brahmaputra	Gauhati ...	21st "	8 A.M. ...	26.50'	148.76'	175.28'	...	0.30'	175.46'	176.06'
	... { Seraiganj ...	21st "	12 hours ...	40.40'	...	...	...	0.10'	...	...
	... { Dibrugarh ...	21st "	8 A.M. ...	17.50'	...	...	...	0.50'	...	...
Meghna	Bhairab Bazar ...	21st "	6 hours ...	16.17'	1.61'	17.78'	0.50'	...	...	...
	... { Chandpur ...	21st "	11 "	12.25'	1.61'	13.86'	0.17'	...	...	...
	... { Fenchuganj ...	21st "	7 A.M. ...	25.30'	...	...	0.20'	...	...	...
Dhaleswari	Sabhar ...	21st "	7 "	28.50'	-8.62'	19.88'	0.40'	...	...	...
Bhagirathi	Swarupganj ...	21st "	7 "	21.16'	1.509'	22.669'	1.12'	19.09'	15.26'	
Damodar	Edilpur ..	21st "	6 "	11.83'	92.58'	104.41'	...	1.00'	...	...
Lakhya	Narayanganj	21st "	...	21.50'	-5.59'	15.91'	...	0.06'	...	...
Madaripur Bil Route	Takerhat ...	21st "	6 A.M. ...	12.00'	-0.599'	11.401'	0.20'	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 24th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	22nd July 1919	20.27'	101.83'	122.10'	0.60'	...	117.50'	115.90'	
	... { Rajmahal ...	22nd "	23.50'	56.319'	79.819'	0.60'	...	77.41'	75.06'	
	... { Goalundo ...	22nd "	22.60'	...	...	0.10'	...	21.90'	22.70'	
Brahmaputra	Gauhati ...	22nd "	26.10'	148.76'	174.86'	...	0.40'	175.26'	175.86'	
	... { Serajganj ...	22nd "	40.30'	...	...	...	0.10'	...	...	
	... { Dibrugarh ...	22nd "	17.20'	...	...	...	0.30'	...	...	
Meghna	Bhairab Bazar ...	22nd "	16.25'	1.61'	17.86'	0.08'	...	...	...	
	... { Chandpur ...	22nd "	11.75'	1.61'	13.36'	...	0.50'	...	...	
	... { Fenchuganj ...	22nd "	25.50'	...	...	0.20'	...	...	...	
Dhaleswari	... Sabhar ...	22nd "	28.70'	-8.62'	20.08'	0.20'	...	...	...	
Bhagirathi	... Swarupganj ...	22nd "	21.98'	1.509'	23.489'	0.82'	...	18.98'	15.27'	
Damodar	... Edilpur ...	22nd "	10.33'	92.58'	102.91'	...	1.50'	...	...	
Lakhya	... Narayanganj. ...	22nd "	21.50'	-5.59'	15.91'	Steady	Steady	...	...	
Madaripur Bil Route	... Takerhat ...	22nd "	12.00'	-0.599'	11.401'	Steady	Steady	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 24th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	Monghyr ...	23rd July 1919	6 A.M.	20.47'	101.83'	122.30'	...	117.40'	115.30'	
	... { Rajmahal ...	23rd "	6 "	23.75'	56.319'	80.069'	...	77.41'	75.06'	
	... { Goalundo ...	23rd "	8 hours	22.80'	...	...	...	22.00'	22.80'	
Brahmaputra	Gauhati ...	23rd "	8 A.M.	25.90'	148.76'	174.66'	0.20'	175.06'	176.06'	
	... { Serajganj ...	23rd "	12 hours	40.20'	...	...	0.10'	...	...	
	... { Dibrugarh ...	23rd "	8 A.M.	17.50'	...	...	0.30'	...	...	
Meghna	Bhairab Bazar ...	23rd "	6 hours	16.42'	1.61'	18.03'	0.17'	...	...	
	... { Chandpur ...	23rd "	14-30 "	11.83'	1.61'	13.44'	0.08'	...	...	
	... { Fenchuganj ...	23rd "	7 A.M.	25.60'	...	...	0.10'	...	...	
Dhaleswari	... Sabhar ...	23rd "	7 "	28.70'	- 8.62'	20.08'	Steady	...	...	
Bhagirathi	... Swarupganj ...	23rd "	6 "	22.70'	1.509'	24.209'	0.72'	18.79'	15.48'	
Damodar	... Jeditpur ...	23rd "	6 "	11.67'	92.58'	104.25'	1.34'	...	...	
Lakhya	... Narayanganj ...	23rd "	...	21.67'	- 5.59'	16.08'	0.17'	...	...	
Madaripur Bil Route	... Takerhat ...	23rd "	6 A.M.	12.00'	- 0.599'	11.401'	Steady	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 24th July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Sta.	Fall.	1917.	1918.	
Ganges	Monghyr ...	24th July 1919	20.47'	101.83'	122.30'	Steady		117.40'	114.90'	
	... { Rajmahal ...	24th "	24.00'	56.319'	80.319'	0.25'	...	77.46'	74.91'	
	... { Goalundo ...	24th "	23.00'	...	...	0.20'	...	22.10'	22.90'	
Brahmaputra	Gauhati ...	24th "	25.50'	148.76'	174.26'	...	0.40'	175.06'	176.46'	
	... { Serajganj ...	24th "	40.10'	..	...	...	0.10'	...	...	
	... { Dibrugarh ...	24th "	17.80'	...	...	0.30'	...	...	...	
Meghna	Bhairab Bazar ...	24th "	16.50'	1.61'	18.11'	0.08'	...	...	...	
	... { Chandpur ...	24th "	12.00'	1.61'	13.61'	0.17'	...	...	...	
	... { Fenchuganj ...	24th "	25.60'	...	...	Steady		...	...	
Dhaleswari	Sabhar ...	24th "	28.80'	-8.62'	20.18'	0.10'	...	...	...	
Bhagirathi	... Swarupganj ...	24th "	23.76'	1.509'	25.269'	1.06'	...	18.62'	15.94'	
Damodar	... Edilpur ...	24th "	10.58'	92.58'	103.16'	...	1.09'	...	...	
Lakhya	... Narayanganj ...	24th "	21.81'	-5.59'	16.22'	0.14'	...	...	...	
Madaripur Bil Route	Takerhat ...	24th "	12.00'	-0.599'	11.401'	Steady		...	...	



## IRRIGATION DEPART

**Statement showing heights over mean sea-level and low water in the  
June 1919, and the highest reading of each gauge over**

RIVER GANGA											
Mirzapore. Zero of gauge 206.73 ft.		Benares. Zero of gauge 196.80 ft.		Buxar. Zero of gauge 167.56 ft.		Dinapore. Zero of gauge 134.23 ft.		Monghyr. Zero of gauge 101.83 ft.(a)			
Distance in miles.	From Allah- bad 86.	From Allah- bad 134.	From Mirzapur 48.	From Benares 90.	From Benares 177.	From Buxar 87.	From Benares 287.	From Dinapore 110.			
Date.	Highest gauge reading.	2nd September 1916. 205.97.	3rd September 1916. 244.30.	3rd and 4th Septem- ber 1916. 202.20.	5th September 1901 and 4th August 1917. 169.73.	5th September 1901. 132.60.					
	Lowest gauge reading.	28th June 1897. 187.20.	1st May 1877. 182.80.	10th to 14th May 1914. 160.80.	20th April 1913. 135.13.	29th April to 6th May 1914. 96.00.					
		Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
1	2	3	4	5	6	7	8	9	10	11	12
				Below zero	Below zero.					Below zero	
1st	...	3.25	209.47	3.50	193.30	1.25	166.30	5.50	139.73	2.03	99.80
2nd	...	3.25	209.47	3.50	193.30	1.25	166.30	5.50	139.73	2.03	99.80
3rd	...	3.25	209.47	3.50	193.30	1.33	166.22	5.50	139.73	2.03	99.80
4th	...	3.29	209.51	3.50	193.30	1.33	166.22	5.50	139.73	1.83	100.00
5th	...	3.29	209.51	3.50	193.30	1.33	166.22	5.60	139.83	1.73	100.10
6th	...	3.25	209.47	3.50	193.30	1.33	166.22	5.70	139.93	1.83	100.00
7th	...	3.21	209.43	3.50	193.30	1.42	166.13	5.60	139.83	1.73	100.10
8th	...	3.17	209.39	3.25	193.55	1.42	166.13	5.60	139.83	1.73	100.10
9th	...	3.75	209.97	3.00	193.80	1.17	166.38	5.70	139.93	1.73	100.10
10th	...	3.83	210.05	2.75	194.05	1.08	166.47	5.90	140.13	1.63	100.20
11th	...	3.67	209.89	2.67	194.13	1.25	166.30	6.20	140.43	1.33	100.50
12th	...	3.54	209.76	2.67	194.13	Above zero.					
13th	...	3.46	209.68	3.00	193.80	1.33	168.88	8.90	143.13	0.73	101.10
14th	...	3.33	209.55	3.17	193.63	1.33	168.88	13.20	147.43	Above zero.	
								13.30	147.53	1.17	103.00
15th	...	3.29	209.51	3.33	193.47	Below zero.				4.67	106.50
16th	...	3.29	209.51	3.42	193.38	1.00	166.55	13.70	147.93	5.97	107.80
17th	...	3.29	209.51	3.50	193.30	1.33	166.22	13.50	147.73	6.57	108.40
18th	...	3.54	209.76	3.50	193.30	1.17	166.38	12.90	147.13	6.67	108.50
19th	...	3.58	209.80	3.08	193.72	1.42	166.13	12.60	146.83	6.47	108.30
20th	...	5.08	211.30	3.00	193.80	1.33	166.22	12.80	147.03	6.27	108.10
21st	...	6.25	212.47	2.25	194.55	1.42	166.13	13.60	147.83	6.47	108.30
22nd	...	6.17	212.39	0.67	196.13	1.42	166.13	13.90	148.13	8.67	110.50
23rd	...	5.92	212.14	0.50	196.30	1.75	165.80	15.10	149.33	9.37	111.20
24th	...	5.92	212.14	1.67	195.13	1.00	166.55	16.20	150.43	10.17	112.00
						1.42	166.13	16.40	150.63	11.17	113.00
25th	...	6.25	212.47	1.67	195.13	Above zero.					
26th	...	6.83	213.05	1.42	195.38	1.08	168.63	16.90	151.13	11.77	113.60
						1.17	168.72	17.70	151.93	12.37	114.20
27th	...	7.58	213.80	Above zero							
28th	...	8.25	214.47	0.08	196.88	1.17	168.72	18.50	152.73	12.87	114.70
29th	...	9.00	215.22	1.00	197.80	1.25	168.80	18.50	152.73	13.37	115.20
30th	...	9.83	216.05	1.83	198.63	1.75	169.30	17.80	152.03	13.27	115.10
				2.50	199.30	2.17	169.72	16.90	151.13	12.67	114.50

\* New gauge fixed at Rajmahal from 1st June 1910 in place of the gauge at Sahibganj. The zero of gauge at Rajmahal 56.46 ft. above M. S. L. from 10th February 1916 to 15th June 1918. From the 16th June 1918 to 6th April 1919 April 1919 it is 69.319 ft. above M. S. L.

† To compare the reduced levels shown in these monthly printed statements before and after the 1st June 1903, 5.78 ft. October 1909).

(a) A new gauge fixed at Monghyr on 16th July 1914.

(b) From the 1st November 1915 the zero of gauge was 2.43 ft. above M.S.-L. Previous to that the zero was at M.S.-L. zero is 1.500 ft above M.S.L.

(c) From the 26th January 1916 to 4th April 1919 the zero of gauge at Berhampore was 80.99 ft. above M.S.-L. From

(d) From the 26th October 1916 a temporary wooden gauge with its zero at 49.00 ft. above M.S.-L. was erected at 3rd June 1919. From 4th June 1919 the zero is 1.51 ft. above M. S.-L.

(e) Gauge shifted from Sabik Goulundo to Fakirabad from 30th June 1919.

The 29th July 1919.



MENT, BENGAL.

*ivers Ganges, Bhagirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge-reading since 1876.*

						RIVER BHAGI- RATHI.		RIVER JALANGI.		RIVER BRAHMA- PUTRA.	
Rajmahal. <sup>a</sup> Zero of gauge 56'31'9".		Rampur-Bonlia. Zero of gauge 1'51" ft. (d)		Goalundo. (e) Zero of gauge is at mean sea-level.		Berhampore. Zero of gauge 32'499" (c)		Baruganj.(b) Zero of gauge 1'809".		Gaubati. Zero of gauge 148'76" ft.	
From Benares 407.	From Monghyr 120.	From Benares 471.	From Rajmahal 64.	From Benares 891.	From Rampur- Bonlia 120.						
16th August 1912. 88'46.		26th August 1879. 89'25.		28th August 1906 and 16th Septem- ber 1918. 36'75.7		14th August 1890. 61'70.		26th September 1900. 35'03.		24th August 1904; 181'11.	
2nd May 1910. 84'53.		23rd April 1886. 37'63.		26th March 1910. 7'25.		19th to 24th April 1917 -33'40.		28th March 1915. 2'12.		6th February 1888. 142'46.	
Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
13	14	15	16	17	18	19	20	21	22	23	24
3'30	59'619	55'15	35'15	11'70	11'70	1'66	34'159	4'76	6'269	15'20	163'96
3'45	59'769	35'30	35'30	11'90	11'90	1'71	34'209	4'49	5'999	16'70	165'46
3'50	59'819	35'50	35'50	12'30	12'30	1'71	34'209	4'21	5'719	16'00	164'76
3'55	59'869	35'54	35'54	12'80	12'80	1'71	34'209	3'96	5'469	15'70	164'46
3'60	59'919	35'59	35'59	13'80	13'80	1'81	34'309	3'89	5'399	14'20	162'96
3'65	59'969	35'59	35'59	14'30	14'30	1'81	34'309	4'03	5'539	18'30	162'06
3'65	59'969	35'59	35'59	14'40	14'40	1'86	34'359	4'24	5'729	12'60	161'36
3'75	60'069	35'59	35'59	14'20	14'20	1'86	34'359	4'22	5'729	11'90	160'66
3'75	60'069	35'79	35'79	13'80	13'80	1'86	34'359	4'41	5'919	11'50	160'26
3'90	60'219	35'69	35'69	13'50	13'50	1'86	34'359	4'45	5'959	11'40	160'16
4'10	60'419	35'89	35'89	13'50	13'50	1'86	34'359	4'73	6'239	11'70	160'46
4'80	60'619	36'24	36'24	13'50	13'50	1'86	34'359	7'47	8'979	12'80	161'56
4'80	61'119	36'69	36'69	13'80	13'80	1'91	34'409	7'99	9'499	14'10	162'86
5'30	61'619	37'09	37'09	14'20	14'20	1'91	34'409	8'06	9'569	16'10	164'86
6'50	62'819	37'49	37'49	14'50	14'50	2'70	35'199	8'45	9'959	18'00	166'76
8'20	64'519	38'59	38'59	14'90	14'90	3'00	35'499	8'98	10'489	19'10	167'86
9'50	65'819	40'19	40'19	15'50	15'50	3'10	35'699	8'33	9'839	19'60	168'36
10'00	66'319	41'34	41'34	16'30	16'30	2'70	35'199	7'28	8'789	20'10	168'86
10'25	66'569	42'09	42'09	17'30	17'30	2'40	34'899	6'38	7'839	20'70	169'46
10'40	66'719	42'49	42'49	18'10	18'10	2'10	34'599	5'68	7'189	21'20	169'96
10'85	67'169	42'79	42'79	18'80	18'80	2'10	34'599	5'50	7'009	21'80	170'56
11'70	68'019	43'24	43'24	19'40	19'40	2'10	34'599	9'68	11'189	23'00	171'76
12'40	68'719	43'89	43'89	20'10	20'10	3'40	35'899	11'35	12'859	24'90	173'66
13'00	69'319	44'49	44'49	20'70	20'70	3'60	36'099	11'13	12'639	26'00	174'76
13'75	70'069	45'04	45'04	21'20	21'20	3'60	36'099	10'25	11'759	27'00	175'76
14'55	70'869	45'69	45'69	21'90	21'90	3'30	35'799	9'09	10'599	27'60	176'36
15'30	71'619	46'44	46'44	22'70	22'70	3'60	36'099	8'58	10'089	28'00	176'76
15'90	72'219	47'09	47'09	23'10	23'10	4'80	37'299	7'97	9'479	27'70	176'46
16'30	72'619	47'69	47'69	22'30	22'30	5'20	37'699	6'92	8'429	27'40	176'16
16'40	72'719	47'99	47'99	19'60	19'60	5'20	37'699	6'36	7'869	27'40	176'16

was 56'46 ft. above M.S.-L. up to 26th October, 1915 and 60'00 ft. above M.S.-L. from 27th October 1915. The zero was again it was 54'81 ft. above M.S.-L. from 7th to 16th April 1919 it was 56'32 ft. above M.S.-L. and from 16th should be deducted from the former or added to the latter (vide Bengal Government letter No. 1088T.-L., dated the 12th dating back 15th July 1897. Zero was at M.S.-L. from 1st April 1918 to 13th April 1919. Again from 14th April 1919 the 5th April 1919 the zero is 32'499 ft. above M.S.-L. Rampur Bonlia in place of the permanent gauge washed away. The zero of gauge was at M.S.-L. from 25th June 1918 till

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 26th July 1919.**

Name of Article	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.			
	From—		To—			
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—						
Balam, coarse	8 4 0	8 6 0	0 3 3	0 3 6		
" medium	8 8 0	8 12 0	0 3 6	0 3 9		
Patnai, coarse	7 10 0	8 2 0	0 3 3	0 3 6		
" medium	8 4 0	8 8 0	0 3 6	0 3 9		
Nagra, coarse	7 8 0	8 4 0	0 3 3	0 3 6		
" medium	8 6 0	8 10 0	0 3 6	0 3 9		
Dudhkalma	8 8 0	8 10 0	0 3 10	.....		
Raugeon Boiled	.....	.....	.....	.....		
Kajla	6 6 0	6 12 0	0 3 0	.....		
Wheat, Dudhia	8 0 0	8 4 0	.....	.....		
" Gangajali	.....	.....	.....	.....		
" Jamali	7 4 0	.....	.....	.....		
Gram, Patnai (whole)	7 4 0	.....	.....	.....		
" dal	8 12 0	10	.....	.....		
Mung " (Hari)	12 8 0	.....	.....	.....		
" " (Krishna)	12 4 0	.....	.....	.....		
Arhar "	9 4 0	.....	.....	.....		
Masur " (split)	7 0 0	7 12 0	0 3 0	.....		
" " (Khanri)	9 8 0	10 8 0	0 4 0	.....		
Kalai "	8 8 0	9 8 0	0 3 6	0 5 0		
Salt	3 5 0	3 6 0	0 1 6	.....		
Sugar (brown Java)	18 8 0	.....	0 9 0	0 10 0		
Gur, Bheli	.....	.....	.....	.....		
" Sanchi	8 12 0	9 0 0	0 4 0	.....		
Milk	9 0 0	11 0 0	0 3 0	0 5 0		
Mustard oil	35 0 0	39 0 0	0 13 0	1 0 0		
Flour, country	9 2 0	10 4 0	0 4 6	0 5 6		
Atta, No. 3	7 9 0	.....	.....	.....		
" " 2½	7 12 0	.....	0 3 6	0 5 6		
" " B	10 8 0	.....	.....	.....		
Suji	9 7 0	10 12 0	0 4 6	0 6 0		
Ghee (Bhadwa, Matki, etc.)	85 0 0	86 8 0	2 8 0	.....		
" (Patiram, Khurja, Ruto, Etwa better kind, etc.)	83 0 0	84 0 0	2 4 0	.....		
" (Lalli, Etwa, Sagar, etc.)	79 0 0	80 0 0	2 0 0	.....		
Maize	6 0 0	6 8 0	.....	.....		
Potato	7 0 0	7 12 0	0 3 6	0 4 0		
Patal	6 0 0	6 12 0	0 2 0	0 2 6		
Brinjal	.....	.....	0 2 0	0 2 6		
Onions	3 10 0	3 12 0	0 1 9	0 2 0		
Fish, Rahu	30 0 0	32 0 0	0 14 0	0 15 0		
Mutton (2nd class)	.....	.....	0 10 0	.....		
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 4 0		

N.B.—This is an abstract at prices at the following markets :—

*Wholesale.*—Chetla HAT, Ramkrishnapur HAT, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphanage Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolla Bazar, Mallick Bazar and Jogu Babu's Bazar.

S. C. Roy,

for President, Advisory Food Committee.

CALCUTTA the 26th July 1919.



GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 26th July 1919, as compared with the corresponding week of the previous year.

Nature of Cargo.	WEEK ENDING SATURDAY, THE 26TH JULY 1919.			WEEK ENDING SATURDAY, THE 27TH JULY 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	329	57,695	989	527	73,495	1,296
Jute ...	66	38,374	434	40	33,650	806
Firewood ...	66	35,150	516	168	57,700	956
Other articles ...	8	214,981	2,251	787	195,427	2,247
Total		346,200	4,190	1,522	360,272	4,805
Empty boats and rafts	...	...	1,991	473	...	980
GRAND TOTAL		346,200	6,181	1,993	360,272	5,785

... canal measurement ... Mds. 60,937  
 ditto ditto ... 35,380

G. J. ST. C. SEDGLEY,  
 July 1919. Under-Secy. to the Govt. of Bengal.

Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 19th July 1919.

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
13th July	63.5	...	...	...	...	63.6	Rising.
14th "	63.7	...	...	...	...	63.75	Do.
15th "	63.85	...	...	...	...	63.95	Do.
16th "	64.1	...	...	...	...	64.2	Do.
17th "	64.3	...	...	...	...	64.3	Do.
18th "	64.4	...	...	...	...	64.5	Do.
19th "	64.7	...	...	...	...	64.9	Do.

Notable high and low water-levels of previous years.

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.84	
10th August	1910	...	...	...	69.85	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1913	...	...	...	69.7	Taken at low tide.
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.0	
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	Taken at low tide.
12th March	1912	...	...	...	51.06	
5th "	1914	...	...	...	50.30	
22nd February	1915	...	...	...	50.60	
15th "	1916	...	...	...	51.0	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA.  
 The 23rd July 1919.

W. J. KERR,  
 Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 19th July 1919.**

Date.	Hour.	Height of surface above or below zero; minus sign for those below zero.	Height of surface above mean sea-level according to corrected datum.(a)	Height of surface above mean sea-level on the same date last year according to corrected datum.(a)	Remarks.
1919.					
13th July	8 A.M.	Zero of gauge is at mean sea-level.	53.70	53.76	B. M. on College step corrected 64.93.
14th "	8 "		54.40	54.27	
15th "	8 "		54.75	54.36	
16th "	8 "		54.80	54.41	
17th "	8 "		54.70	54.41	
18th "	8 "		54.50	54.41	
19th "	8 "		54.80	54.31	

(a) Datum corrected by adding 1.61 to the value of zero, vide Superintending Engineer's No. 2876, dated 8-28-17, dated 10th May 1918, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4621, dated 17th February 1919.

		Old value.	According to corrected datum (a)
The previous year	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	Lowest "	47.70 on 21st April 1918	36.89
Record	Highest "	69.25 on 26th August 1879	64.44
Do.	Ditto "	69.08 on 9th September 1886	61.27
Do.	Ditto "	68.30 on 26th August 1906	63.47
Do.	Ditto "	68.21 on 26th August 1899	63.10
Do.	Lowest "	37.68 on 25th April 1884	32.82
Do.	Ditto "	38.18 on 14th—15th April 1883	33.32
Do.	Ditto "	39.02 on 21st—22nd April 1907	34.21
Do.	Ditto "	39.28 on 6th—7th May 1908	34.57

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 19th July 1919.

D. M. BANERJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 19th July 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
13th July	7 A.M.	20.4	20.4	20.8	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
14th "	7 "	20.8	20.8	21.2	
15th "	7 "	21.0	21.0	21.5	
16th "	7 "	21.3	21.3	21.8	
17th "	7 "	21.6	21.6	21.9	
18th "	7 "	21.7	21.7	22.0	
19th "	7 "	21.7	21.7	22.2	

The previous year	Highest water-level	26.2 on 1st September 1918.
Ditto	Lowest "	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	Highest "	26.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	Ditto "	25.75 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges)	Ditto "	25.66 on 11th to 17th and 31st August; and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	Ditto "	25.66 on 31st July 1906.
Do.	Lowest "	1.0 on 8th February 1914.
Do.	Ditto "	2.42 on 13th March 1908.
Do.	Ditto "	2.91 on 21st to 24th February and 8th to 9th March 1894.
Do.	Ditto "	8.16 on 9th to 11th March 1885.
Do.	Ditto "	8.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

FARIÐPUR,  
The 21st July 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, AUGUST 6, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 26TH JULY 1919.

DURING the week the rainfall was general but scanty. More rain is urgently wanted for transplantation on high land. Sixty-six relief works were open during the week. The number of persons relieved on works was 5,140. The number of persons in receipt of gratuitous relief was 20,838, viz., 15,722 on cash doles in 128 unions, 3,683 on paddy-husking advances, 853 weavers and 580 better class poor. The total number of persons relieved was 25,978. The increase in the number of persons on relief works was due to partial cessation of the field operations. The number of persons relieved on private works was 797. The charitable societies also relieved 718 other persons by weekly doles and 1,650 persons by daily doles and cooked food. Theft of food-grains and petty dacoities attributable to distress increased slightly during the week. The physical condition of workers and public health are generally good. Sporadic cases of cholera and fever were reported. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice was 5½ seers per rupee. Burma rice is being sold.

M. C. MCALPIN,  
Secy. to the Govt. of Bengal.

RAMNA, DACCA, the 4th August 1919.



## REPORT ON THE ADMINISTRATION OF THE SALT DEPARTMENT IN BENGAL DURING THE YEAR 1918-19.

### NOTIFICATION.

No. 2220SR.—*The 29th July 1919.*—The following extracts from the Report of the Commissioner of Excise and Salt, Bengal, on the administration of the Salt Department in the Presidency of Bengal during the year 1918-19, are published for general information.

C. F. PAYNE,

*Secy. to the Govt. of Bengal.*

No. 2158E., dated Calcutta, the 23rd June 1919.

From—S. C. MUKERJEE, Esq., I.C.S., Commissioner of Excise and Salt, Bengal.

To—The Secretary to the Government of Bengal, Financial Dept.

I HAVE the honour to submit the following consolidated report on the administration of the Salt Department for the year 1918-19. The report deals with the preventive operations in the saliferous districts of the Presidency, which were under the control of the Commissioner of Excise and Salt, and with the importation and issues of salt under the control of the Customs authorities.

2. **Charge of the Department.**—Mr. A. N. Moberly, I.C.S., held charge from the 1st April to the 7th November 1918, and I was in charge for the rest of the year.

### CHAPTER I.

#### General.

3. **Credit system of payment of duty.**—The Collector of Customs Calcutta, reports that securities to the extent of Rs. 72,88,000 were deposited during the year as compared with Rs. 54,84,200 in 1917-18. The amount of duty debited during the year under the system was Rs. 1,03,64,573 against Rs. 83,68,422 in the previous year. There were 55 depositors during the year, five of whom closed their accounts, leaving a balance of 50.

4. **Salt golas at Sulkea and Chittagong.**—During the year additions and alterations to gola No. 5 at Sulkea were taken in hand in order to convert it into a shed for housing and repairing salt tubs and trestles. Alterations to gangways and some improvements to a portion of the foreshore salt golas were completed. As regards the salt golas at Chittagong, the accommodation was fully taken up only once in the month of August 1918; on other occasions there was no difficulty about accommodation. In the course of the year a scheme was submitted to Government for the removal of the Sadar ghat golas to Moheshkhal at an estimated cost of Rs. 65,500. The proposal has recently been sanctioned by the Government of India and the work will be taken up as soon as the funds are allotted by the Public Works Department. The removal of the salt golas to the new site will remove to a great extent the difficulty at present experienced in quick despatch to ships and in wastages in transport.

5. **Consumption of duty-free salt for commercial purposes.**—The quantity of salt delivered free of duty for commercial purposes, or on which a drawback was subsequently allowed for the same reason, amounted to 7,380 maunds as compared with 12,300 maunds in 1917-18.

6. **Manufacture of salt in Bengal.**—As stated in paragraph 6 of last year's report, enquiries regarding the manufacture of salt on a commercial scale were continued in the current year. In order to encourage such manufacture in Bengal it was made permissible by the Government of India

in the districts of 24-Parganas, Midnapore, Khulna, Bakarganj and Chittagong subject to the conditions of a license granted under the authority of



Government of Bengal. A firm in Calcutta has received permission to manufacture salt in one of the districts named above and the construction of the salt factory is in progress, but it is reported that no salt will be manufactured during the current year.

## CHAPTER II.

### Stocks, imports and clearances.

7. **Accounts of stocks and issues.**—The stocks, imports and clearances of salt in and from the ports of Calcutta and Chittagong for the years 1917-18 and 1918-19 are shown below :—

Stocks, imports, etc.	1917-18. Mds.	1918-19. Mds.
Total of all stocks at the commencement of the year ... ..	11,86,461*	10,71,691
Total quantity imported during the year ...	85,50,142	1,01,50,730
Excess found in the <i>golas</i> ... ..	750	350
<b>Total</b> ... ..	<b>97,37,353*</b>	<b>1,12,22,771</b>
Quantity of duty-paid salt actually issued during the year ... ..	81,86,937*	94,10,928
Quantity which passed free of duty for the manufacture of glazed stoneware, etc. ...	12,300*	7,380
Quantity of non-duty-paid salt removed under bond to all inland warehouses ...	3,95,970	3,66,273
Quantity written off during the year for wastage or otherwise ... ..	70,455	1,25,596
<b>Total</b> ... ..	<b>86,65,662*</b>	<b>99,10,177*</b>
Balance at the close of the year ... ..	10,71,691*	13,12,594

\* Revised figures.

Both the import and clearance figures show considerable increase.

### 8. Imports.—

The total imports into Calcutta and Chittagong increased by 14·6 per cent. and 63·0 per cent., respectively. There was an increase in imports into Calcutta from the United Kingdom, Port Said and Bombay. The very large increase from Port Said was due mainly to the fact that shipping was more readily available from that port. The decrease from Spain was due to want of tonnage and that from Aden to the salt works of the Indo-Aden Company being out of commission for a time owing to trouble with their boilers. There were no imports into Chittagong from the United Kingdom except table-salt. The imports from Aden fell by 71,528 maunds and those from Port Said increased by 7,81,212 maunds. There were no imports into that port from Spain.

Out of the total importation of 89,67,125 maunds into the port of Calcutta, 72,75,686 maunds or 81 per cent. were bonded in the *Sulkea golas* during the year as against a percentage of 86 in the previous year. The percentage was smaller owing to larger clearances from board ship during the year.

### 9. Sales of imported salt from shipboard and bond.—

In Calcutta the sales direct from shipboard show an increase of 67·4 per cent. and those from bond by 4·3 per cent. In Chittagong the sales direct from shipboard and bond increased by 51·7 per cent. and 44·0 per cent., respectively. There was an increase of 14·2 per cent. in the total sales of imported salt. All the vessels carrying salt to Calcutta were steamers.



10. **Transactions in the *golas*.**—The total transactions at the *golas* in Calcutta and Chittagong for the past five years are given below :—

YEAR.			Calcutta.	Chittagong.
			Mds.	Mds.
1914-15	...	...	1,58,60,486	15,95,103
1915-16	...	...	1,55,57,771	17,35,807
1916-17	...	...	1,45,87,255	15,24,260
1917-18	...	...	1,36,05,327	13,64,536
1918-19	...	...	1,42,66,818	20,70,799

12. **Inland bonded warehouses.**—There were 10 private bonded warehouses in this Presidency against 11 in the previous year, viz., 2 at Narainganj (Dacca), 1 at Bhairab Bazar (Mymensingh), 1 at Madaripur (Faridpur), 4 at Jhalakati (Bakarganj), and 2 at Chandpur (Tippera). Two of the four *golas* at Jhalakati were closed during the year. The quantity of salt despatched to these 10 inland warehouses from shipboard and *golas* in the ports of Calcutta and Chittagong was 3,47,073 maunds, as compared with 3,77,070 maunds in 1917-18, showing a decrease by 7·9 per cent. There was an increase of 300 maunds or 1·6 per cent. in the quantity of salt despatched to the bonded warehouse at Ajmiriganj in Assam, the quantity despatched in the year being 19,200 maunds against 18,900 maunds in the previous year.

### CHAPTER III.

#### Consumption and Prices.

15. **Consumption.**—The total quantity of salt which passed into consumption in this Presidency during the year 1918-19 was 76,51,968 maunds. This is exclusive of 29,82,037 maunds, the net export by rail, road or river, but inclusive of 568 maunds educed from saltpetre, and 7,380 maunds issued free of duty for commercial purposes.

#### 16. **Prices of salt in Bengal generally.**—

There was a decrease of 8 annas 6 pies in the average as compared with the previous year. It is reported that owing to larger supplies prices have been steadily falling and were much below the maximum prices fixed by Government. The average wholesale price per 100 maunds of Liverpool salt was Rs. 186-13-4 against Rs. 273-6-4 in the previous year.

The maximum prices at which salt may be sold for delivery at the Sulkea and Chittagong salt *golas* are now fixed at the following rates per 100 maunds :—

			Ex-golas.	
			Sulkea.	Chittagong.
			Rs.	Rs.
Liverpool	...	...	188	198
Spanish	...	...	183	193
Port Said	...	...	180	190
Massowah	...	...	180	190
Aden Fine	...	...	180	190
Indo-Aden	...	...	179	189



At the same time the maximum retail price of salt was fixed at 1 anna 6 pies per seer in all places in the Presidency and Burdwan Divisions and 1 anna 9 pies per seer in all places in the Dacca, Chittagong and Rajshahi Divisions except the Chittagong Hill Tracts, where the maximum retail price is fixed at 2 annas per seer, and the Sadar, Kalimpong and Kurseong subdivisions of the district of Darjeeling, where the maximum retail price is fixed at 2 annas and 3 pies per seer.

## CHAPTER V.

### Financial Results.

#### 19. Receipts and charges.—

The receipts show an increase by Rs. 2,64,423 or 2·4 per cent. and the charges by Rs. 28,523 or 9·2 per cent. The net revenue was Rs. 1,08,41,264, which was larger than that of the previous year by Rs. 2,35,900 or 2·2 per cent. The increase in the receipts occurred mainly under head "Import Duty on Salt." The charges do not include any share of cost of the Customs Preventive Service, which is largely employed in safeguarding the salt revenue.

## CHAPTER VI.

### Miscellaneous.

20. **Saltpetre refineries and Soda factories.**—As in the preceding year, there were three licensed saltpetre refineries at Maniktola, Sulkea and Kakurgachi, respectively. No license was issued in 1918-19 for the manufacture of sulphate of soda.

The quantity of refined saltpetre produced during the year was 11,701 maunds against 16,989 maunds in the previous year. The Collector of Excise, Calcutta, reports that the decrease was partly due to the bad management of the Sulkea refinery by the proprietors and partly to less demand for saltpetre. The quantity of salt educed in the process of refinement of saltpetre was 547 maunds as compared with 942 maunds in 1917-18, and the quantity of *sitta* (impure salt) left in the course of refinement, was 78 maunds against 191 maunds in the previous year. Five hundred and sixty-eight maunds of educed salt were sold during the year as compared with 696 maunds in 1917-18, the duty realized being Rs. 710 as compared with Rs. 870 in the previous year. The license fees realized from the saltpetre refineries amounted to Rs. 150 as in the previous year.



## STAMP STATISTICS FOR 1918-19.

## NOTIFICATION.

No. 180T.S.-R.—The 18th July 1919.—The following statement shewing the receipts and charges of the Stamp Department in Bengal for the year 1918-19 is published for general information.

C. F. PAYNE,

Secy. to the Govt. of Bengal.

## STATEMENT I.—Abstract of receipts and charges for the year ending 31st March 1919.

	Receipts.	CHARGES.				Net receipts.	Cost of stamps and plain paper supplied from Central Depôt.
		Discount and establishment for the sale of stamps.	Refunds.	Other charges.	Total.		
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Under the Stamp Act ...	82,00,811°	2,07,846	46,121	25,807†	2,79,774	79,21,037	56,328
Under the Court-fees Act ...	1,77,26,083	1,50,371	1,41,978	.....	2,92,349	1,74,33,684	2,80,445
Total ...	2,59,26,844°	3,58,217	1,88,099	25,807	5,72,123	2,53,54,721	2,86,773
Total of the year 1917-18.	2,85,02,730‡	3,44,957	2,01,156	26,773	5,72,886	2,29,29,844	2,58,468

° Includes Rs. 9,62,363 paid to the Calcutta Improvement Trust on account of excess stamp duty realised from several districts and also Rs. 4,99,000 being the provincial share of sale-proceeds of unified stamps credited to non-postal revenues.

† Includes Rs. 17,327 on account of district establishment, Rs. 1,245 on account of rewards, and Rs. 7,235 on account of contingencies.

‡ Includes Rs. 7,90,927 paid to the Calcutta Improvement Trust on account of excess stamp duty realised from several districts and also Rs. 4,99,000 being the provincial share of sale-proceeds of unified stamps credited to non-postal revenues.



## DEPARTMENT OF AGRICULTURE, BENGAL.

### First Forecast of the Sugarcane Crop of Bengal, 1919-20.

*(Note.—On an average of the five years ending 1916-17, the area under sugarcane in Bengal has represented some 9.2 per cent. of the total area under sugarcane in British India.)*

**Character of the Season.**—Owing to insufficient rainfall and consequent lack of soil-moisture the weather was not generally favourable at the time of planting. Subsequently, since the latter part of April, however, moderate rainfall has greatly helped the growth of the plants and the present outlook is hopeful.

**Area Planted.**—The total area planted with sugarcane for the province is reported to be 221,100 acres this year, against 217,600 acres in the corresponding forecast of last year.

ROBERT S. FINLOW,

*Offg. Director of Agriculture, Bengal.*

*Dacca, the 1st August 1919.*



## First Forecast of the Sugarcane Crop of Bengal, 1919-20.

District.	Estimated normal area under sugarcane.	ESTIMATED AREA UNDER SUGAR AKE.		Date by which the planting of sets generally commenced this year, and whether that date was early, normal or late.	Remarks by District Officers.
		Last year.	This year.		
1	2	3	4	5	6
	Acres.	Acres.	Acres.		
21-Parganas ...	6,000*	4,100	5,000	Beginning of April. Normal.	The increase in area was due to good outturn and to high price of sugar obtained last year. The weather has been favourable.
Nadia ...	7,000	3,800	5,100	End of January. Normal.	The increase in area was due to high price of sugar. The weather has been favourable.
Murshidabad ...	3,000	2,100	2,800	December to April. Normal.	The decrease in area was due to want of rain at the time of planting. At the beginning the weather was not favourable for want of rain which has affected the growth of the crop. Subsequently it has been favourable and the present condition of the crop is good.
Jessore ...	2,900	2,800	2,100	February and March. Normal.	The increase in area was due to high price of sugar. The weather has been favourable. The crop is thriving well.
Khulna ...	1,500	1,100	1,000	February. Normal.	The decrease in area as compared with last year was due to want of rain at the time of planting. The weather has been favourable for the growth of the crop.
Burdwan ...	22,000	19,000	17,100	April to May. Normal.	The decrease in area was due to unfavourable weather and to want of moisture in the soil. The weather was not favourable at the beginning, but subsequently it has been favourable.
Birbhum ...	9,000	11,000	11,000	May. Normal.	The weather has been favourable.
Bankura ...	15,000	11,500	10,800	Middle of May. Late.	The decrease in area was due to want of rain at the time of planting. The planting was delayed owing to late rainfall. The rainfall of May and June helped the germination and growth of the crop.
Midnapore ...	6,000†	2,000	4,300	March and April. Normal.	The increase in area was due to rise in price of raw sugar. The weather has been favourable up till now.
Hooberly ...	7,300	5,000	4,900	March. Normal.	The decrease in area as compared with that of last year was due to want of timely rainfall. The weather has not been favourable.
Howrah ...	8,300	6,300	5,200	January to April.	The weather on the whole has been favourable.
Rajshahi ...	18,000	12,300	12,100	End of January. Normal.	The decrease in area was due to unfavourable weather at planting time. Since then the weather has been favourable.
Dinajpur ...	25,000	20,600	20,600	January to March. Normal.	The decrease in area was due to want of timely rainfall. The weather has been fair.
Jalpaiguri ...	5,000*	4,000	2,700	First week of December. Normal.	The weather was not favourable at the time of planting. It has since been favourable in some parts of the district.
Darjeeling ...	200*	200†	200‡	Middle of March. Normal.	The weather was not favourable at planting time. Subsequently the character of the weather has been fair.
Rangpur ...	20,500	11,000	11,900	Middle of February. Normal.	The increase in area was due to high price of sugar last year. At the beginning the weather was not favourable, but subsequently it has been favourable.
Bohara ...	20,000	2,700	4,300	March and April.	The increase in area was due to high price of sugar. At the beginning the weather was not favourable, but subsequently it has been favourable to the growth of the crop.
Pabna ...	10,000	9,700	9,700	Middle of April. Normal.	The weather was dry at the time of planting. Subsequently the weather has been favourable.
Malda ...	200†	200‡	200‡	Iditto.	At the time of planting the weather was not favourable for want of rain but subsequently it has been favourable for the growth of the crop.
Dacca ...	21,100	22,900	22,900	November to March. Normal.	The weather was not favourable at the time of planting, but subsequently it has been favourable.
Mymensingh ...	11,100	10,300	10,300	March. Normal, except at Jamalpur where it commenced in January which was early.	The weather has been favourable.
Faridpur ...	7,100	7,400	7,400	February. Normal.	The weather has been favourable from the time of planting up till now.

\* Revised.

† Conventional area revised.

‡ Revised on the basis of settlement records.

§ Conventional.



SUPPLEMENT TO THE CALCUTTA GAZETTE, AUG. 6, 1919. 851

District.	Estimated normal area under sugarcane.	ESTIMATED AREA UNDER SUGARCANE.		Date by which the planting of sets generally commenced this year, and whether that date was early, normal or late.	Remarks by District Officers.
		Last year.	This year.		
1	2	3	4	5	6
	Acres.	Acres.	Acres.		
Bakerganj ... ..	11,000	20,500	23,000	January and February. Normal.	The increase in area was due to high price of sugar and gur and also due to favourable weather at the time of planting. Want of sufficient rainfall in April and May caused some injury to the crop. Subsequently the weather has been favourable.
Chittagong ... ..	6,400	6,400	6,000	March and April. Normal.	The weather has been fair.
Tippah ... ..	2,000	6,100	6,100	March. Normal ...	The weather has not been favourable owing to want of rain. The condition of the crop is not good.
Noakhali ... ..	800	800(a)	800(a)	Ditto ...	The weather has been favourable and the condition of the crop is good.
Chittagong Hill Tracts.	1,000	1,000	1,000	Middle of April to middle of May.	The weather has not been favourable.
Total for Bengal	247,500	219,000*	221,100		

(a) Conventional area. | \* Revised.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 31st July 1919.

**Summary.**—During the latter part of the week, light to moderate rainfall accompanied by wind was general throughout the province. Transplantation of winter paddy is proceeding under generally favourable condition, but its progress is retarded in some districts of West and North Bengal for want of sufficient rainfall. Reaping of autumn paddy and cutting, steeping and washing of jute continue. Some small damage to standing jute and autumn paddy on low lands by floods is reported from places in the Eastern Bengal districts. The average price of common rice for the province has risen by about 1·18 per cent. as compared with that of the previous week. The average number of persons engaged daily on test works in the Brahamanbria subdivision of Tippera district was 90.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	1·18	5½	5½	Transplanting of <i>aman</i> paddy continues. Fodder and water are sufficient. Condition and prospects of jute are good. Slight damage by insects is reported from Basirhat and Barasat subdivisions. The effects of weather are good.
	Diamond Harbour.	1·24	5½	5½	
	Barrackpore	0·58	5	5	
	Barasat ...	0·25	5½	5½	
	Basirhat ...	0·90	6½	6½	
2	NADIA ...	1·68	5½	5½	Prospects of standing crops including jute are good. Harvesting of <i>aus</i> paddy and jute continues. Effects of weather are favourable to jute. Some damage to jute has been done by insect-pests. Transplanting of <i>aman</i> paddy has commenced. Cattle-disease is reported from thana Chuadanga.
	Kushtia ...	0·12	5	5½	
	Meherpur ...	4·88	6½	6½	
	Chuadanga ...	1·03	5½	6	
	Ranaghat ...	2·68	5½	5½	
3	MURSHIDABAD	3·97	5	5½	Weather stormy and cloudy. Prospects of standing crops are good. Transplanting of <i>aman</i> paddy is retarded in some parts for scanty rainfall. Prospects are favourable though some damage done by flood. Condition and prospects of jute are fair. Effects of weather are favourable to its growth. No damage. Harvesting has not commenced. Cattle-disease is reported from Saktipore in Sadar and Mirzapur in Jangipur subdivisions. Fodder is sufficient. No large import or export. Agricultural loans and gratuitous relief are being given for distress in some parts of the district.
	Lalbagh ...	1·90	5½	5½	
	Jangipur ...	2·06	4½	5	
	Kandi ...	3·57	5½	5	
4	JESSORE ...	1·19	6	6	Weather stormy. Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy continue. Standing crops are doing well. Condition and prospects of jute are fair. Harvesting has commenced. Fodder is sufficient.
	Jhenidah ...	1·95	5½	6	
	Magura ...	2·56	6	6	
	Narail ...	0·63	5½	5½	
	Bangaon ...	1·14	6	5½	



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKHS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
5	KHULNA ...	Inches 2.94	6	6	Transplantation of <i>aman</i> paddy is going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Harvesting has commenced. Fodder and water are sufficient. Cattle-disease is reported from Kachua and Rampal police-stations.
	Satkhira ...	0.26	6	6	
	Bagerhat ...	2.52	5½	5½	
6	BURDWAN ...	5.21	5	5	Weather drizzling and cyclonic. Transplanting of <i>aman</i> paddy is progressing, but more rain is needed for the operation. Prospects of jute and sugarcane are fair. Cattle disease is reported from Galsi and Sahebganj.
	Asansol ...	2.77	4½	5	
	Katwa ...	4.38	5½	5½	
	Kalna ...	1.22	5½	5½	
7	BIRBHUM ...	3.13	5½	5½	Transplantation continues. More rain is wanted in places. Fodder and water are sufficient.
	Rampurhat ...	1.69	5	5	
8	BANKURA ...	2.76	5	5½	Transplantation of paddy is going on. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	1.01	5½	5½	
9	MIDNAPORE	1.74	5½	5½	Transplantation of winter rice continues except in thanas Ramnagar, Egra and Ghatal where rain is wanted for the operation. Condition and prospects of jute are fair. Cattle disease is reported from Contai subdivision.
	Ghatal ...	1.63	5½	5½	
	Tamluk ...	1.28	6	6½	
	Contai ...	0.21	6½	6½	
10	HOOGHLY ...	0.86	4½	4½	Condition and prospects of jute are fair; the effects of weather on the growth of the crop are favourable. Damage by insect-pests is reported from Sadar and Serampore subdivisions. Harvesting has commenced at some places in Serampore subdivision. Fodder is sufficient. Price of rice is steady.
	Serampore ...	0.45	5½	5½	
	Arambagh ...	2.71	6	6	
11	HOWRAH ...	2.54	5	5	Weather rainy. Condition of jute and sugarcane is good. Transplanting of winter paddy continues. Fodder is sufficient. No damage done to jute.
	Ulubaria ...	2.10	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	1.93	4½	5	The prospects of jute and other standing crops are favourable. Harvesting of jute has commenced throughout the district. Fodder is sufficient.
	Naogaon ...	0.22	5	5	
	Nator ...	0.25	4½	4½	
13	DINAJPUR ...	4.80	5½	5½	Weather is favourable to jute and other standing crops. More rain is wanted at Thakurgaon and Balurghat subdivisions for transplanting of winter paddy. Rice market is rising at Balurghat due to export. Cattle disease is reported from Kaliaganj thana.
	Thakurgaon ...	2.05	6	6	
	Balurghat ...	0.71	5	5	



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
14	JALPAIGURI	0.47	5½	5½	Prospects of jute are fair. More rain is wanted for transplanting of winter paddy. Effects of weather are favourable to jute. Fodder is sufficient.
	Alipur ...	1.05	5	5	
15	DARJEELING	2.75	4½	4½	Harvesting of potatoes and maize continues. Standing crops are in good condition. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Harvesting has not begun. Transplanting of autumn and winter paddy and <i>marua</i> is in progress. The supply of fodder and water is sufficient. Stock of food-grains is insufficient. Cattle-disease is reported from places.
	Kurseong ...	2.82	5	4½	
	Siliguri ...	3.21	4	4½	
	Kalimpong ...	0.81	5	5½	
16	RANGPUR ...	3.18	4½	5	Weather reasonable and its effects are favourable to jute. Cutting, steeping and washing of jute are in progress. No damage done to jute. Harvesting of <i>aus</i> paddy is in progress. Transplantation of winter rice is going on. Condition and prospects of jute are good. Fodder and water are sufficient. The price of rice is still rising owing to insufficient stock and heavy export.
	Nilphamari	0.95	5	5½ <sup>5</sup>	
	Kurigram ...	2.82	5	5½	
	Gaibandha ...	1.05	5	5	
17	BOGRA ...	0.59	4½	5	Harvesting of <i>aus</i> paddy, cutting and steeping of jute and transplanting of winter paddy continue. Prospects of jute are fair. Fodder is insufficient in flooded area.
18	PABNA ...	0.95	5	5½	Prospects of <i>aman</i> paddy are favourable, but it has slightly been damaged by flood. Autumn paddy to the extent of about 4 annas has been damaged by flood in the Sadar subdivision. About 2 annas jute has been damaged by flood. Damage by insects is reported from Sirajganj subdivision. Fodder is insufficient in some localities.
	Sirajganj ..	2.95	5½	(n)	
19	MALDA ..	0.50	5	5½	Weather cyclonic. Transplanting of winter paddy continues. Prospects of jute and other standing crops are fair. No damage to crop is reported. Harvesting of <i>bhadai</i> paddy has commenced on low lands. Fodder and water are sufficient. Cattle-disease is reported from Gomostapur thana.

(n) Not reported



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
20	COOCH BEHAR	1.02	6½	6½	Weather hot with occasional rains. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for winter paddy and transplantation of seedlings are in progress. Condition of jute and effects of weather on its growth are favourable. Cutting, steeping and washing have commenced. Fodder is sufficient.
21	DACCA ...	2.43	{ 4½ to 4½	{ 4½ to 4½	Early in the week the weather was sultry with occasional showers. It has been cyclonic during the last two days. Harvesting of jute and <i>aus</i> paddy is in progress. The gradual rise of water is beneficial to broad-cast <i>aman</i> paddy. Prospects of jute and <i>aus</i> paddy are fair. Cattle-disease is reported in the northern parts of the Sadar subdivision.
	Manikganj...	5.30	4½	4½	
	Narayanganj	4.90	5	4½	
	Munshiganj*	5.35	4½	4½	
22	MYMENSINGH	2.69	4½	4½	Weather hot. Transplantation of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Prospects of standing crops are good. No damage to jute is reported. Fodder and water are sufficient.
	Jamalpur ...	1.69	4½	4½	
	Tangail ...	2.50	4½	(n)	
	Netrakona ...	3.76	4½	4½	
	Kishorganj...	5.12	4½	4½	
23	FARIDPUR ...	2.75	4½	4	Weather gusty and not very favourable to the standing crops. <i>Aus</i> paddy and jute have been slightly damaged in the <i>bheel</i> area of Goalundo subdivision by the sudden rise of rivers. Harvesting of jute and <i>aus</i> paddy continues. Prospects are fair. Fodder is sufficient.
	Goalundo ...	1.74	4½	4½	
	Madaripur ...	2.58	4½	4½	
	Gopalganj†...	0.38	5	4½	
24	BAKARGANJ (BARISAL).	1.33	4½	4½	Prospects of jute and other standing crops are fair. Weather is not favourable to jute. No damage done to the crop. Harvesting has commenced. Fodder is sufficient. Cattle-disease is reported from Matbaria thana.
	Pirojpur ...	1.63	5	5	
	Patuakhali...	3.43	5	5½	
	Dakshin Shahazpur (Bhola).	2.16	4½	4½	
25	CHITTAGONG	4.89	5½	5½	Prospects of standing crops are good. Transplantation of <i>bhadoi</i> paddy is going on. Harvesting of <i>aus</i> crops is going on in places. <i>Panya</i> salt is selling at 11 and 9 seers per rupee at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	0.44	5	5½	
26	TIPPERA (COMILLA).	2.17	4	4½	The prospects of <i>aus</i> paddy are fair and those of jute are good. Harvesting of jute and <i>aus</i> paddy is going on. 88 men and 2 children worked daily on an average in test works in Brahmanbaria subdivision. Price of rice is still very high.
	Brahmanbaria.	4.57	5	5	
	Chandpur ...	0.92	4½	4	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RI E. IN PEERS. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
27	NOAKHALI ...	1.49	4	4½	Weather seasonable. Prospects of standing crops other than jute are good. Prospects of jute are fair in the Sadar subdivision and good in the Feni subdivision. Effects of weather on its growth are fair in Sadar and good in Feni subdivisions. Harvesting continues. Fodder sufficient.
	Feni ...	4.8	{ 4½ 5½ }	4½	
28	CHITTAGONG HILL TRACTS.	3.85	5	5	Prospects of <i>jhum</i> crops are fair. Plough paddy is doing well. Fodder is sufficient.

\* Aus rice.

R. S. FINLOW,  
Offg. Director of Agriculture, Bengal.

DACCA, the 4th August 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of July 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	2 12 0	3 4 0	3 5 0	3 8 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	3 10 0	3 14 0	2 0 0	2 6 0	3 10 0	3 6 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 2 0	4 2 0	1 12 0	2 2 0	3 0 0	3 2 0	...
Chittagong ...	4 0 0	4 0 0	(c)	2 10 0	3 0 0	2 14 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	4 8 0	4 8 0	2 0 0	3 3 0	3 0 0	4 0 0	...
Narayanaganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 5 0	4 3 0	2 0 0	2 12 0	3 4 0	3 10 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	4 8 0	4 0 0	1 12 0	2 14 0	3 4 0	3 0 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 2 0	2 4 0	3 2 0	3 0 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	3 4 0	3 3 0	1 12 0	2 4 0	3 3 0	3 2 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 0 0	4 0 0	1 7 0	2 0 0	2 12 0	2 12 0	...
Chittagong ...	4 0 0	4 0 0	(c)	2 12 0	2 14 0	2 12 0	2 10 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	4 0 0	4 0 0	1 12 0	3 0 0	3 2 0	3 12 0	...
Narayanaganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 4 0	4 2 0	1 10 0	2 3 0	3 0 0	3 0 0	3 3 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	3 8 0	3 5 0	1 3 0	2 3 0	2 6 0	...	3 2 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, &c., in the under-mentioned marts of Bengal for the first-half of July 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1916.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	8 8 0	7 6 0	7 12 0	7 8 0	6 12 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	8 4 0	8 0 0	6 2 0	9 0 0	7 8 0	6 2 0
Kalna ...	...	...	...	...	...	...	...
Raigang ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 8 0	2 10 0	4 10 0	6 4 0	6 4 0	5 8 0
Chittagong ...	12 0 0	12 0 0	8 8 0	8 0 0	10 0 0	10 0 0	7 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	8 12 0	8 4 0	4 8 0	8 0 0	6 4 0	6 12 0	6 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	10 11 0	10 0 0	5 0 0	7 8 0	7 4 0	6 0 0	5 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	9 0 0	8 8 0	5 0 0	6 4 0	6 8 0	7 8 0	8 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1916.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	4 8 0	6 0 0	6 6 0	5 12 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 6 0	7 4 0	3 4 0	4 2 0	5 4 0	5 8 0	5 2 0
Kalna ...	...	...	...	...	...	...	...
Raigang ...	...	...	...	...	...	...	...
Midnapore ...	7 8 0	7 8 0	3 8 0	4 2 0	5 4 0	5 8 0	4 10 0
Chittagong ...	7 0 0	6 8 0	3 8 0	4 8 0	5 0 0	4 8 0	5 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	8 0 0	7 8 0	4 0 0	5 4 0	6 12 0	5 10 0	6 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 8 0	7 0 0	3 10 0	4 10 0	5 2 0	6 0 0	5 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	8 8 0	7 12 0	3 12 0	4 12 0	5 0 0	6 4 0	6 4 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of July 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	3 0 0	3 0 0	3 3 0	4 3 0	4 2 0	4 10 0	4 0 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	3 0 0	(4)	4 12 0	5 12 0	5 0 0	5 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	3 12 0 to 3 0 0	3 10 0 to 3 0 0	3 4 0	5 0 0	5 0 0	5 4 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	3 12 0	3 11 0	...	4 0 0	...	...	3 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	...	...	5 4 0	5 0 0	5 0 0	5 0 0	4 12 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	3 0 0	3 0 0	3 0 0	4 3 0	5 4 0	5 0 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	11 0 0	11 0 0	3 4 0	5 0 0	6 0 0	6 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0 to 11 0 0	10 3 0 to 11 3 0	7 3 0	5 12 0	4 6 0	4 0 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	3 0 0	3 0 0	6 3 0	7 3 0	7 0 0	6 4 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of July 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 0 0	7 0 0	4 0 0	3 4 0	3 0 0	3 8 0	3 12 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 8 0	7 8 0	3 10 0	3 8 0	4 0 0	3 14 0	4 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 10 0	7 10 0	4 2 0	3 14 0	4 4 0	4 8 0	...
Chittagong ...	10 0 0	to 7 8 0	to 4 8 0	4 0 0	4 4 0	5 0 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Raigpur ...	9 0 0	9 0 0	5 4 0	7 0 0	7 0 0	6 10 0	...

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	11 0 0	10 0 0	5 8 0	4 0 0	5 0 0	6 4 0	5 4 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	12 0 0	12 0 0	3 8 0	4 8 0	5 8 0	5 12 0	6 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	12 8 0	11 0 0	to 6 0 0	5 0 0	5 4 0	6 0 0	...
Chittagong ...	11 4 0	to 12 0 0	to 7 8 0	to 6 8 0	to 6 8 0	7 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	11 8 0	11 0 0	6 0 0	6 8 0	6 8 0	8 4 0	7 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	10 0 0	10 0 0	4 0 0	6 0 0	7 4 0	...	6 8 0
Sirajganj ...	...	...	...	...	...	...	...
Raigpur ...	(a)	(a)	6 0 0	7 8 0	7 0 0	6 12 0	6 0 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of July 1919.**

Marts.	LINSEED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	59	59	60	61	60	62	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	13 8 0	12 0 0	8 8 0	11 8 0	11 8 0	6 0 0	7 12 0	7 12 0	8 0 0	25 8 0	25 0 0	40 0 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	8 8 0	13 8 0	13 8 0	6 0 0 to 7 4 0	8 0 0	8 0 0	8 0 0 to 8 12 0	(a).....	(a).....	36 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	16 0 0	14 0 0	4 4 0 to 16 8 0	16 0 0 to 16 4 0	16 0 0 to 16 4 0	7 4 0 to 8 0 0	7 12 0 to 8 0 0	7 12 0 to 8 0 0	8 4 0 to 8 12 0	40 0 0	40 0 0	40 0 0
Chittagong	13 0 0	13 0 0	10 0 0	13 0 0	13 0 0	7 0 0	11 8 0	11 8 0	6 0 0	16 0 0	16 0 0	20 0 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	12 8 0	12 7 0	8 0 0	12 8 0	11 0 0	7 8 0	11 8 0	10 8 0	10 0 0	.....	.....	.....
Narayaganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	(a)	(a)	.....	12 11 0	12 7 0	7 8 0	9 0 0	9 0 0	7 4 0	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	.....	.....	.....	12 0 0	12 0 0	6 4 0	12 0 0	11 8 0	6 0 0	.....	.....	.....

Marts.	JUTE.			GHEE.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 0 0	76 0 0	76 0 0	70 0 0	450 0 0	450 0 0	450 0 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	6 12 0	76 0 0	76 0 0	60 0 0 to 70 0 0	(a).....	(a).....	42 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	7 0 0	7 0 0	5 0 0	80 0 0 to 86 0 0	74 0 0 to 86 0 0	60 0 0 to 65 5 0	325 0 0	325 0 0	200 0 0
Chittagong	.....	.....	.....	80 0 0	78 0 0	66 0 0	300 0 0	300 0 0	175 0 0
Chandpur	10 0 0 to 13 4 0	8 4 0 to 12 0 0	5 8 0 to 6 8 0	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	77 0 0	77 0 0	61 0 0	.....	.....	.....
Narayaganj	11 0 0 to 13 0 0	6 8 0 to 10 0 0	6 2 0 to 7 10 0	.....	.....	.....	.....	.....	.....
Mymensingh	13 0 0 to 19 0 0	5 0 0 to 10 0 0	6 0 0 to 7 0 0	.....	.....	.....	.....	.....	.....
Madaripur	8 8 0 to 13 8 0	6 0 0 to 9 0 0	5 0 0 to 6 12 0	.....	.....	.....	.....	.....	.....
Pabna	.....	.....	.....	72 0 0	72 0 0	75 0 0	.....	.....	.....
Sirajganj	8 0 0 to 10 0 0	4 0 0 to 6 0 0	4 0 0 to 5 8 0	.....	.....	.....	.....	.....	.....
Rangpur	8 0 0	7 0 0	4 0 0	72 0 0	72 0 0	60 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of July 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	3 0 0	19 0 0	20 0 0	3 4 0	3 0 0	3 15 0	4 2 0(a)	4 2 0(a)	2 11 0
Chittis Hat	...	...	...	...	...	...	...	...	...
Burdwan	16 0 0	15 0 0	20 0 0 to 29 0 0	3 2 0	3 2 0	4 1 0	2 7 0(b)	2 7 0(b)	2 5 0(c)
Kalna	...	...	...	...	...	...	...	...	...
Baughan	...	...	...	...	...	...	...	...	...
Midnapore	to 14 0 0	to 13 0 0	to 13 0 0	3 7 0	3 7 0	4 0 0	4 0 0(b)	4 0 0(b)	5 7 0
Chittagong	20 0 0	21 0 0	20 0 0	3 4 0	3 4 0	3 11 0	3 3 0	3 3 0(d)	2 0 0
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	...	...	...	3 12 0	3 12 0	4 3 0	4 1 0(d)	4 1 0(d)	5 0 0
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	20 0 0 to 22 0 0	20 0 0 to 21 0 0	27 0 0	3 12 0	3 12 0	4 3 0	3 4 0	3 4 0(A)	4 3 0
Sirajga	...	...	...	...	...	...	...	...	...
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 4 0	4 0 0(A)	4 0 0(A)	4 0 0

(a) Monkey brand. | (b) Rising Sun. | (c) Elephant. | (d) Mosque mark. | (e) Gold Mohor.

Marts.	MUSTARD OIL.			FIRWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	85	86	87	81	82	83	84	85	86
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	20 0 0	0 8 0	0 10 0	0 14 0	...	...	...
Chittis Hat	...	...	...	...	...	...	...	...	...
Burdwan	34 0 0	34 0 0	19 0 0	0 8 0	0 8 0	0 11 0	0 8 0	0 8 0	0 8 0
Kalna	...	...	...	...	...	...	0 9 0	0 9 0	0 11 0
Baughan	...	...	...	...	...	...	0 1 10	0 1 10	0 2 0
Midnapore	37 0 0 to 38 0 0	37 0 0 to 38 0 0	21 0 0 to 23 0 0	0 7 0	0 7 0	0 7 0	...	...	...
Chittagong	20 0 0	37 0 0	24 0 0	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	37 0 0	37 0 0	23 3 0	...	...	...	...	...	...
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	36 0 0	32 0 0	21 0 0	...	...	...	...	...	...
Sirajga	...	...	...	...	...	...	...	...	...
Rangpur	37 0 0	20 0 0	21 0 0	...	...	...	...	...	...

DACCA,  
The 28th July 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of July 1919.**

DIVISION	DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL. ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURR. CADJAN I'KA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
		Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
Number.		S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.
1	24-MARGANAP.															
	Chetla Hat ...	5 0	5 0	5 10	5 3	5 3	10 10	4 0	4 0	3 3	4 0	4 0	7 0	10 10	11 3	9 3
	Magra Hat ...	5 3	5 3	11 3	5 3	5 14	12 4	(a)	(a)	3 0	3 5	3 5	7 3	11 3	11 3	9 14
2	Calcutta-Bellaghata	5 3	5 3	5 6	5 0	5 3	10 0	4 4	4 11	3 7	3 3	3 13	7 0	10 0	10 3	10 0
3	NADIA.															
	Goari ...	5 7	5 7	10 3	5 15	5 15	11 7	3 5	3 5	3 5	3 5	3 5	6 3	10 11	10 11	11 5
	Ilanaghat ...	5 2	5 2	10 0	5 0	5 3	10 3	4 0	4 0	3 3	4 0	4 0	6 0	10 3	10 3	10 3
4	MUMSHIDABAD.															
	Borhampur ...	5 2	5 3	12 4	5 0	5 12	12 3	3 4	3 3	3 0	4 0	4 0	7 0	11 0	11 0	11 0
	Kandi ...	5 12	5 3	14 0	5 0	5 12	15 0	3 0	4 3	3 0	4 4	4 3	3 3	11 0	11 0	11 0
5	Jangipur	5 3	5 0	13 0	5 4	5 4	14 3	3 3	3 3	3 0	4 0	4 0	3 0	12 0	10 0	10 0
6	JESSORE.															
	Sadar ...	5 4	5 2	10 10	5 4	5 4	13 4	4 0	3 3	3 3	3 12	3 3	7 0	11 4	10 3	3 4
	Baagao ...	5 5	5 15	11 7	5 2	5 10	13 5	2 11	2 11	4 3	3 3	3 3	3 3	11 4	11 4	3 3
7	SHULNA.															
	Sadar ...	5 3	5 3	12 0	5 12	5 3	14 0	3 5	4 0	3 3	3 12	3 5	5 0	3 3	11 3	3 0
	Bakorhat ...	5 3	5 3	12 0	5 0	5 0	14 3	3 0	3 0	3 0	4 14	4 14	3 3	10 3	10 0	3 0
8	BURDWAN.															
	Sadar ...	5 4	5 0	11 3	5 3	5 3	13 0	3 3	3 3	4 4	3 3	3 1	3 0	12 3	12 0	3 0
	Kalna ...	5 2	5 2	10 3	5 4	5 4	10 3	3 7	3 5	5 12	3 7	3 5	6 3	13 5	11 0	12 12
9	BIRBHUM.															
	Buri ...	5 0	5 4	13 3	5 11	5 3	15 0	3 5	4 0	3 0	3 15	3 0	7 0	10 11	10 0	11 0
	Rampur Hat ...	4 12	5 0	14 3	5 0	5 2	15 0	3 3	3 3	3 0	3 0	3 0	3 0	11 0	11 0	12 0
10	BAWURA.															
	Sadar ...	5 5	5 0	12 0	5 3	5 4	12 3	3 12	3 3	7 3	3 12	3 12	7 0	11 0	11 0	10 0
	Vishnupur ...	5 3	5 3	12 0	5 10	5 10	12 3	4 3	4 12	3 0	3 3	3 3	7 0	10 0	9 4	3 0
11	MIDNAPORE.															
	Sadar ...	5 6	5 6	13 12	5 3	5 11	14 3	3 4	3 4	5 4	3 4	3 4	{ 5 4 to 5 0 }	10 0	10 0	3 4
	Contal ...	5 3	5 3	13 3	5 12	5 0	13 0	3 0	3 0	7 0	3 0	3 3	7 0	9 0	10 3	3 0
12	HOOGHLY.															
	Sadar ...	5 0	5 0	10 0	5 3	5 3	11 0	3 0	3 0	6 0	3 12	3 4	6 3	10 0	11 0	3 0
	Arambagh ...	5 0	5 0	10 3	5 3	5 3	11 3	3 4	3 4	5 11	3 0	3 0	5 11	10 10	10 10	3 0
13	HOWRAH.															
	Sadar ...	5 0	5 3	11 0	5 12	5 10	12 0	3 10	3 11	7 0	3 3	3 10	7 4	11 0	10 12	3 3
	Uinbaria ...	5 4	5 4	10 0	5 12	5 12	11 0	3 3	4 0	6 4	3 3	3 3	5 3	11 3	11 3	3 4
14	RAJSHAHI.															
	Rampur-Boalia ...	5 0	4 14	10 14	5 2	5 3	11 10	3 3	3 3	6 0	3 3	3 3	3 12	9 0	10 20	3 12
	Nator ...	4 14	5 0	11 4	5 4	5 3	15 0	4 0	5 0	6 0	5 0	5 0	7 14	3 0	3 0	3 0
	Dinajpur-Hallway Bazar Hat.	4 13	4 15	10 3	5 3	5 0	11 3	4 0	3 11	6 3	3 10	3 3	6 3	10 3	3 10	3 0
15	Jalpaiguri-Sadar	3 4	5 0	10 3	5 0	5 3	12 0	4 0	4 0	7 0	4 0	4 0	3 0	3 0	3 0	7 0

\* Karkateb.

(a) Not available.



**Price-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of July 1918—concl'd.**

QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.

DIVISION.

BALNASH.

DACC.

CHITTAGONG.

COMMON RICE.

KALAI DAL (*Phaseolus*  
*radiatus*).

ARHAR (DAL) OR TURH.  
CADJAN PEA (*Cajanus*  
*indicus*).

SALT.

Average.

Cheapest.

DISTRICTS AND  
MARKS.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

Present return.

Next preceding return.

Corresponding return of  
last year.

DARJEELING.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

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S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

S. CH.

29

Sadar ...

3 12

4 0

5 0

5 4

5 8

11 0

3 0

3 0

7 0

2 12

2 12

5 8

8 0

8 0

7 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

30

Bilgaon ...

4 8

4 0

7 0

5 0

5 0

10 0

3 8

3 8

7 2

3 8

3 8

7 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

RANGPUR.

31

Sadar ...

4 0

5 0

10 0

4 0

5 8

11 0

4 0

4 0

8 0

(a)

(a)

7 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

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8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

8 0

32

Nilphamari ...

5 7

5 11

11 0

(n)

(n)

12 0

3 4

3 4

8 0

3 0

3 4

5 8

8 0

8 0

8 0

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Dogra—Sadar ...

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PABNA.

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Sadar ...

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9 12

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Sirajgonj ...

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11 12

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MALDA.

36

Sadar ...

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5 0

12 0

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5 4

15 0

4 8

4 8

5 8

3 4

3 0

8 0

10 2

10 8

8 0

\* Karkatch.

† Revised

(a) Not in stock.

(n) Not reported.

DACCA,  
The 28th July 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 2nd August 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	8 4 0	8 6 0	0 3 3	0 3 6
" medium ...	8 8 0	8 12 0	0 3 6	0 3 9
Patnai, coarse ...	7 14 0	8 2 0	0 3 3	0 3 6
" medium ...	8 4 0	8 6 0	0 3 6	0 3 9
Nagra, coarse ...	7 12 0	8 4 0	0 3 3	0 3 6
" medium ...	8 5 0	8 8 0	0 3 6	0 3 9
Dudhkalma ...	8 4 0	8 8 0	0 3 6	.....
Rangoon Boiled ...	.....	.....	0 3 0	.....
Kajla ...	7 0 0	7 2 0	0 3 0	.....
Wheat, Dudhia ...	8 8 0	.....	.....	.....
" Jamali ...	7 8 0	.....	.....	.....
Gram, Patnai (whole) ...	7 0 0	7 4 0	0 2 6	0 3 0
" dal ...	8 4 0	9 0 0	0 4 0	0 4 6
Mung " (Hari) ...	12 4 0	12 12 0	0 8 0	.....
" " (Krishna) ...	12 0 0	12 4 0	0 6 0	.....
Arhar ...	8 8 0	11 0 0	0 4 0	0 5 6
Masur " (split) ...	6 14 0	7 8 0	0 3 0	0 4 6
" " (Khanri) ...	9 6 0	10 4 0	0 4 6	0 5 0
Kalai ...	8 4 0	9 0 0	0 3 6	0 5 0
Salt ...	3 5 0	3 6 0	0 1 9	.....
Sugar ...	20 0 0	.....	0 11 0	.....
Gur, Bheli ...	.....	.....	0 4 6	.....
" bhursut ...	8 12 0	9 0 0	0 5 0	.....
Milk ...	9 0 0	11 0 0	0 3 0	0 5 0
Mustard oil ...	35 0 0	39 8 0	0 14 0	1 2 0
Flour, country ...	9 4 0	10 8 0	0 4 6	0 5 6
Atta, No. 3 ...	7 8 0	.....	.....	.....
" " 2½ ...	7 10 0	.....	0 4 6	0 5 6
" " B ...	10 12 0	.....	.....	.....
Suji ...	9 8 0	10 8 0	0 4 6	0 7 0
Ghee (Bhadwa, Matki, etc.) ...	86 0 0	87 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.) ...	83 0 0	83 8 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.) ...	79 8 0	80 8 0	2 4 0	.....
Maize ...	6 0 0	6 12 0	.....	.....
Potato ...	6 8 0	8 0 0	0 3 6	0 4 6
Patal ...	5 4 0	6 4 0	0 2 6	0 3 6
Brinjal ...	.....	.....	0 2 6	0 3 0
Onions ...	3 6 0	3 12 0	0 1 9	0 2 6
Fish, Rahu ...	30 0 0	32 0 0	0 14 0	0 15 0
Mutton (2nd class) ...	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes) ...	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

**Wholesale.**—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

**Retail.**—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolla Bazar, Mallick Bazar and Joga Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 4th August 1919.



## Vital Statistics of the Towns with a population of 10,000

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births).	Still-born number registered.	Cholera.	Small pox.	Plague.
Burdwan ...	1	Burdwan ...	20,527	15,394	35,921	27	1	5	7	...
	2	Raniganj ...	8,417	7,080	15,497	10	...	21	...	...
	3	Asansol ...	12,486	9,433	21,919	32	1	17	...	...
Bankura ...	4	Bankura ...	12,156	11,297	23,453	35	...	...	...	...
	5	Vishnupur ...	10,025	10,453	20,478	27	2	8	...	...
	6	Sonamukhi ...	6,254	7,021	13,275	11	2	...	...	...
Midnapore ...	7	Midnapore ...	17,577	15,163	32,740	32	...	59	1	...
	8	Ghatal ...	6,216	5,848	12,064	13	3	2	...	...
	9	Houghly and Chin- sura ...	15,817	13,099	28,916	25	...	1	1	...
Houghly ...	10	Serampore ...	19,639	12,439	32,078	24	...	8	8	...
	11	Rishra Konnagore...	10,724	6,792	17,516	20	...	5	...	...
	12	Baidyabati ...	Figures not available			16,131	18	7	3	...
	13	Bhadreswar ...				13,441	4	1	...	...
	14	Champdani ...				15,297	8	3	...	...
Howrah ...	15	Howrah ...	114,829	64,560	179,389	274	31	180	107	2
	16	Bally ...	14,217	8,177	22,394	24	2	18	7	...
	17	Cossipore-Chitpur ...	30,793	17,385	48,178	79	4	56	13	...
24-Parganas	18	Maniktala ...	31,735	22,032	53,767	42	6	33	21	...
	19	South Suburban ...	17,683	13,850	31,533	56	5	15	3	...
	20	Tollygunge ...	11,183	7,250	18,433	25	4	6	1	...
	21	Garden Reach ...	27,665	17,630	45,295	43	4	20	2	...
	22	Budge-Budge ...	11,529	6,453	17,982	17	...	9	...	...
	23	Baranagar ...	14,902	10,913	25,895	20	...	58	34	...
	24	Kamarkhati ...	11,243	6,712	18,015	12	...	5	...	...
	25	Rajpur ...	5,762	5,845	11,607	21	...	1	...	...
	26	South Dum-Dum ...	7,760	5,114	12,874	8	...	10	1	...
	27	Barrackpore ...	11,357	6,944	18,301	6	...	...	...	...
	28	Panihati ...	6,339	4,779	11,118	8	...	5	2	...
	29	North Barrackpore...	9,780	6,340	16,120	19	...	1	1	...
	30	Tittagarh ...	31,225	13,946	45,171	45	...	24	22	1
	31	Garia ...	7,876	3,704	11,580	6	...	4	...	...
	32	Naihati ...	11,685	6,534	18,219	21	...	17	...	...
	33	Bhatpara ...	34,739	15,675	50,414	36	...	24	1	...
	34	Basirhat ...	9,517	8,014	18,331	32	...	...	...	...
Calcutta ...	35	Baduria ...	7,058	6,622	13,680	11	...	...	...	...
	36	Calcutta ...	607,674	288,393	896,067	1,062	55	545	385	80
	37	Krishnagar ...	11,767	11,708	23,475	18	...	7	...	...
Nadia ...	38	Nadia or Nabadwip	5,821	6,659	12,480	20	...	15	1	...
	39	Santipur ...	12,186	14,517	26,703	54	...	2	...	...



and over, of Bengal, for the month of May 1919.

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.			No.	Towns.
					Male.	Female.	Total.	Male.	Female.	Total.		
24	10	22	2	20	53	37	90	57	39	96	1	Burdwan.
10	6	3	...	15	31	24	55	14	15	29	2	Raniganj.
38	4	...	...	2	25	36	61	39	27	66	3	Asansol.
4	7	2	1	8	12	10	22	16	12	28	4	Bankura.
20	2	...	...	4	22	12	34	8	10	18	5	Vishnupur.
83	3	1	...	3	23	17	40	12	10	22	6	Sonamukhi.
13	5	12	...	13	47	56	103	21	11	32	7	Midnapore.
21	5	3	1	...	18	14	32	15	8	23	8	Ghatal.
12	4	6	...	7	19	12	31	34	20	54	9	Hooghly and Chinsura.
26	13	9	1	15	40	35	75	27	16	43	10	Serampore.
6	5	...	1	5	11	11	22	15	7	22	11	Rishra Konnagore.
11	6	...	...	4	16	15	31	27	11	38	12	Baidyabati.
8	6	...	...	3	11	7	18	8	4	12	13	Bhadreswar.
10	2	4	...	...	9	10	19	3	4	7	14	Champdani.
258	76	109	15	117	465	399	864	242	211	453	15	Howrah.
18	5	6	1	4	31	28	59	16	12	28	16	Bally.
47	18	26	6	22	104	84	188	68	60	128	17	Cossipore-Chitpur.
51	21	36	1	53	101	115	216	74	79	153	18	Maniktala.
19	8	9	...	9	27	36	63	20	21	41	19	South Suburban.
9	1	2	...	...	10	9	19	9	14	23	20	Tollygunge.
33	14	6	...	26	69	32	101	80	47	127	21	Garden Reach.
10	1	...	...	3	15	8	23	13	14	27	22	Budge-Budge.
21	9	7	2	15	90	56	146	40	16	56	23	Baranagore.
12	5	...	...	10	22	10	32	25	6	31	24	Kamarhati.
6	1	...	1	...	5	4	9	15	11	26	25	Rajpur.
6	7	3	...	3	17	13	30	6	6	12	26	South Dum-Dum.
9	3	2	1	...	10	5	15	3	6	9	27	Barrackpore.
3	...	1	...	4	8	7	15	6	8	14	28	Panihati.
15	...	5	...	4	20	6	26	12	4	16	29	North Barrackpore.
68	4	2	1	8	80	50	130	40	42	82	30	Titagarh.
6	1	1	...	...	9	3	12	2	3	5	31	Garulia.
8	3	...	...	7	20	15	35	16	12	28	32	Naihati.
46	3	...	...	2	46	30	76	34	34	68	33	Bhatpara.
10	1	...	2	2	9	6	15	17	17	34	34	Basirhat.
4	1	1	1	3	5	5	10	11	7	18	35	Baduria.
443	249	594	42	868	1,925	1,281	3,206	1,292	945	2,237	36	Calcutta.
8	2	5	...	5	11	16	27	10	10	20	37	Krishnagar.
18	1	...	...	5	20	20	40	12	13	25	38	Nadia or Nabadwip.
21	1	6	2	12	20	24	44	33	23	56	39	Santipur.



## Vital Statistics of the Towns with a population of 10,000

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births.)	Still-born number registered.	Cholera.	Small- pox.	Plague.
Murshidabad	40	Berhampore ...	14,302	11,841	26,143	36	1	8	...	...
	41	Murshidabad ...	6,259	6,410	12,669	19	...	5	...	...
	42	Ajimganj ...	6,725	5,602	12,327	9	...	2	2	...
	43	Kandi ...	6,212	6,426	12,638	20	1	...	...	...
	44	Jangipur ...	5,498	5,915	11,408	21	...	2	...	...
Khulna	45	Khulna ...	7,983	5,013	12,996	17	...	5	1	...
	46	Satkhira ...	5,802	5,100	10,902	2	...	...	...	...
Rajshahi	47	Rampur-Boalia ...	13,057	10,349	23,406	41	3	...	...	...
Dinajpur	48	Dinajpur ...	9,648	6,297	15,945	13	...	2	15	...
Jalpaiguri	49	Jalpaiguri ...	7,547	4,218	11,765	36	...	3	...	...
Darjeeling	50	Darjeeling ...	11,631	7,374	19,005	12	...	...	...	...
Rangpur	51	Rangpur ...	10,509	5,920	16,429	12	1	...	...	...
Pabna	52	Pabna ...	10,056	9,218	19,274	11	...	6	3	...
	53	Sirajganj ...	13,236	11,541	24,777	49	...	2	...	...
Maldah	54	English Bazar ...	7,697	6,025	14,322	15	...	1	5	...
	55	Nawabganj ...	11,122	12,300	23,322	23	3	5	...	...
Dacca	56	Dacca ...	63,091	45,460	108,551	201	8	44	97	...
	57	Narayanganj ...	18,738	9,138	27,876	48	2	...	5	...
Mymensingh	58	Mymensingh ...	13,462	6,391	19,853	16	1	20	2	...
	59	Netrakona ...	8,018	5,722	13,740	12	1	...	...	...
	60	Jamalpur ...	11,728	9,381	21,109	27	2	2	2	...
	61	Sherpur ...	8,516	7,075	15,591	22	1	...	1	...
	62	Kishoreganj ...	9,508	8,518	18,026	41	1	2	...	...
	63	Bajitpur ...	5,447	5,386	10,833	4	...	1	3	...
Faridpur	64	Tangail ...	8,493	7,869	16,362	10	1	1	1	...
	65	Faridpur ...	8,017	5,114	13,131	22	...	2	...	...
Bakarganj	66	Madaripur ...	10,549	8,524	19,073	42	...	7	1	...
	67	Barisal ...	15,488	6,985	22,473	28	...	14	...	...
Chittagong	68	Pirojpur ...	6,523	5,473	11,996	30	1	19	...	...
	69	Chittagong ...	18,779	9,987	28,766	73	...	5	...	...
Tippera	70	Comilla ...	13,706	8,986	22,692	22	...	9	...	...
	71	Brahmanbaria ...	11,671	10,624	22,295	44	...	5	5	...
	72	Chandpur ...	9,062	3,655	12,717	13	...	1	1	...
Total of month...			...	...	2,618,159	3,236	147	1,365	760	83
Total of corresponding month of previous year.			...	...	...	4,278	189	544	187	72
Increase + or decrease—			...	...	...	-1,037	+8	+ 821	+573	+11

## REMARKS—

1. The above table is compiled from returns collected by the Municipalities and submitted to this office by the Civil Surgeons. Taken as a whole, the statistics are in a few instances obviously incomplete.
2. The vital statistics of Municipalities with a population of less than 10,000 have been excluded from this statement and incorporated in the statement of the Registrar-General.
3. The birth and death ratios per 1,000 per annum have been omitted from this statement according to the Government of India, Education Department, Report for 1918.

CALCUTTA,  
The 1st August 1919.



and over, of Bengal, for the month of May 1919—concd.

REGISTERED.											No.	Towns.
Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.				
					Male.	Female.	Total.	Male.	Female.	Total.		
10	1	3	...	11	16	17	33	38	19	57	40	Berhampore.
17	2	...	1	...	10	15	25	10	15	25	41	Murshidabad.
12	...	...	...	3	12	7	19	9	18	27	42	Ajimganj.
4	...	...	...	7	6	5	11	10	9	19	43	Kandi.
16	...	...	...	1	9	10	19	8	4	12	44	Jaugipur.
13	8	...	...	2	19	10	29	10	10	20	54	Khuina.
8	...	...	1	...	4	5	9	4	10	14	46	Satkhira.
19	1	...	2	16	22	16	38	20	23	43	47	Rampur-Boalia.
15	10	26	1	4	51	22	73	14	7	21	48	Dinajpur.
4	2	1	3	5	11	7	18	14	9	23	49	Jalpaiguri.
13	...	7	...	5	15	10	25	8	13	21	50	Darjeeling
5	1	...	...	1	5	2	7	9	10	19	51	Rangpur.
8	...	...	1	...	9	9	18	8	12	20	52	Pabna.
26	2	...	...	5	22	13	35	7	6	13	53	Sirajganj.
8	2	1	...	3	11	9	20	9	13	22	54	English-Bazar.
9	...	...	...	3	8	9	17	18	8	26	55	Nawabganj.
121	25	14	7	76	201	183	384	100	77	177	56	Dacca.
14	5	3	...	15	17	25	42	22	15	37	57	Narayanganj.
11	6	...	1	7	34	13	47	24	9	33	58	Mymensingh.
4	...	...	...	1	...	5	5	6	3	9	59	Netrokona.
27	6	...	1	11	23	26	49	22	20	42	60	Jamalpur.
3	1	1	...	7	6	7	13	12	8	20	61	Sherpur.
9	7	1	1	2	11	11	22	19	16	35	62	Kishoreganj.
4	...	1	...	1	7	3	10	3	3	6	63	Bajipur.
21	...	3	...	5	21	10	31	27	16	43	64	Tangail.
20	1	3	2	5	20	13	33	21	16	37	65	Faridpur.
16	1	...	1	21	25	22	47	18	11	29	66	Madaripur.
18	1	...	...	9	31	11	42	15	8	23	67	Barisal.
23	...	3	...	5	29	21	50	19	8	27	68	Pirojpur.
28	8	4	7	33	56	29	85	43	39	82	69	Chittagong.
8	1	...	...	2	11	9	20	5	12	17	70	Comilla.
15	3	5	1	3	22	15	37	25	21	46	71	Brahmanbaria
12	1	...	...	7	9	13	22	7	6	13	72	Chandpur.
1,926	608	959	111	1,557	4,229	3,140	7,369	...	...	...		
1,546	616	657	108	1,535	2,976	2,289	5,265	2,976	2,289	5,265		
+380	—8	+302	+3	+22	+1,253	+851	+2,104	...	...	...		

whole the table possesses a relative value, although the figures for individual towns probably only approximate to the actual in a proportion reported in the returns for districts—vide Bengal Government, Municipal Department, letter No. 1188an., dated the 8th February 1918. 109 Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



## Vital Statistics of the Districts excluding Towns, of Bengal, with a population

Division.	No.	Districts.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (exclud- ing still- births).	Still-born number registered.	Cholera.	Small- pox.	Plague
Burdwan ...	1	Burdwan ...	728,894	786,140	1,465,034	2,831	11	523	80	...
	2	Birbhum ...	463,838	471,635	935,473	2,275	28	225	30	...
	3	Bankura ...	534,150	547,314	1,081,464	3,071	1	70	44	...
	4	Midnapore ...	1,386,921	1,389,476	2,776,397	5,120	177	465	143	...
	5	Hooghly and Seram- pore.	481,989	484,729	966,718	1,478	1	108	102	...
	6	Howrah ...	369,595	372,124	741,719	1,424	11	138	125	...
Presidency ...	7	24-Parganas ...	1,005,789	941,802	1,947,591	3,194	31	553	62	...
	8	Nadia ...	782,806	772,382	1,555,188	2,938	55	1,364	68	2
	9	Murshidabad ...	689,301	657,786	1,297,089	2,553	138	904	28	...
	10	Jessore ...	901,092	857,172	1,758,264	2,760	120	520	21	...
	11	Khulna ...	695,794	647,074	1,342,868	2,167	59	290	14	...
Rajshahi ...	12	Rajshahi ...	742,149	715,032	1,457,181	2,613	129	872	89	...
	13	Dinajpur ...	840,228	791,690	1,671,918	3,819	127	116	1,764	...
	14	Jalpaiguri ...	482,681	408,214	890,895	1,902	129	747	86	...
	15	Darjeeling ...	130,463	116,082	246,545	536	25	365	36	...
	16	Rangpur ...	1,244,208	1,124,693	2,368,901	4,452	271	1,268	1,248	...
	17	Bogra ...	502,526	481,041	983,567	2,089	98	358	435	...
	18	Pabna ...	700,299	684,236	1,384,535	2,194	130	1,314	525	...
	19	Malda ...	479,728	486,787	966,515	1,997	37	206	137	...
Dacca ...	20	Dacca ...	1,395,861	1,428,114	2,823,975	4,769	243	787	200	...
	21	Mymensingh ...	2,274,431	2,136,477	4,410,908	6,588	312	1,680	475	...
	22	Faaidpur ...	1,056,393	1,033,317	2,089,710	3,585	118	256	72	...
	23	Bakarganj ...	1,222,824	1,171,618	2,394,442	4,503	83	738	39	...
Chittagong ...	24	Chittagong ...	704,058	775,609	1,479,667	3,151	265	832	12	...
	25	Noakhali ...	645,898	656,192	1,302,090	2,679	178	430	68	...
	26	Tippora ...	1,208,642	1,163,792	2,372,434	4,033	282	678	553	...
	27	Chittagong Tracts.	Hill							Not under
Total of month for Bengal			21,660,558	21,050,530	42,711,088	78,721	3,059	15,807	6,476	2
Total of corresponding month of previous year			...	...	...	107,215	4,205	7,528	1,602	1
Increase + or decrease -			...	...	...	28,494	-1,146	8,279	4,874	+1

- REMARKS—1. The above table is compiled from returns collected by the thana police officers and submitted to this office by the to the actual.
2. The vital statistics of municipalities with a population of less than 10,000 have been included in this statement with
3. Divisional totals and the birth and death ratios per 1,000 per annum have been omitted from the statement according

CALCUTTA,  
The 1st August 1919.



of 10,000 and over, for the month of May 1918.

REGISTERED.												Number	Districts.
Fever.	Dysentery and Diarrhoea.	Respiratory diseases.	Injuries including suicides.	Other causes.	Total all causes.			Total of co-responding month of previous year.					
					Male.	Female.	Total.	Male.	Female.	Total.			
3,743	83	21	36	406	2,505	2,387	4,892	1,942	1,658	3,600	1	Burdwan.	
2,853	7	4	22	225	1,482	1,384	2,866	1,118	896	2,014	2	Birbhum.	
2,109	25	6	35	489	1,405	1,373	2,778	1,460	1,223	2,683	3	Bankura.	
5,428	96	27	89	791	3,648	3,391	7,039	2,292	2,137	4,429	4	Midnapore.	
1,766	113	43	44	240	1,271	1,145	2,416	1,089	982	2,071	5	Hooghly and Serampore.	
703	226	56	38	253	834	705	1,539	715	548	1,303	6	Howrah.	
2,424	54	63	116	433	1,978	1,727	3,705	1,827	1,628	3,455	7	24-Pargannas.	
3,949	7	19	68	385	3,075	2,807	5,882	2,164	1,951	4,115	8	Nadia.	
2,621	13	38	43	316	2,172	1,791	3,963	1,785	1,580	3,365	9	Murshidabad.	
3,001	12	5	74	238	2,157	1,714	3,871	1,286	2,735	4,021	10	Jeonore.	
1,925	19	7	80	537	1,545	1,327	2,872	1,214	1,064	2,278	11	Khulna.	
3,136	9	6	46	204	2,316	2,046	4,362	1,677	1,584	3,261	12	Rajahmahi.	
3,663	12	6	44	73	3,097	2,581	5,678	2,336	1,962	4,298	13	Dinajpur.	
2,349	181	21	21	117	1,953	1,569	3,522	1,564	1,284	2,848	14	Jalpaiguri.	
720	109	17	8	122	737	640	1,377	494	385	879	15	Darjeeling.	
4,555	11	1	37	39	3,942	3,217	7,159	2,751	2,238	4,989	16	Rangpur.	
1,519	24	7	43	159	1,324	1,221	2,545	1,082	847	1,929	17	Bogra.	
3,135	14	3	25	105	2,874	2,247	5,121	2,187	2,010	4,197	18	Pabna.	
1,941	2	3	28	156	1,415	1,058	2,473	1,413	1,160	2,573	19	Malda.	
3,883	158	17	99	850	3,257	2,737	5,994	3,015	2,387	5,402	20	Dacca.	
6,265	146	34	65	923	5,108	4,480	9,588	4,503	3,953	8,456	21	Mymensingh.	
3,475	53	20	101	620	2,500	2,097	4,597	2,765	2,254	5,019	22	Faridpur.	
4,340	60	3	129	1,420	3,778	2,951	6,729	2,221	1,761	3,985	23	Bakarganj.	
3,716	86	2	50	84	2,431	2,301	4,732	2,842	2,903	5,745	24	Chittagong.	
2,756	49	1	62	443	1,981	1,828	3,809	2,486	2,443	4,929	25	Nonkhali.	
3,889	261	11	61	736	3,471	2,718	6,189	2,527	2,204	4,731	26	Tippura.	
registration.											27	Chittagong Hill Tracts.	
79,364	1,780	441	1,464	10,364	62,256	53,442	115,698				...		
70,951	2,205	346	1,567	12,375	50,758	45,817	96,575	50,758	45,817	96,575			
+ 8,413	- 425	+ 95	- 103	- 2,011	+ 11,498	+ 7,625	+ 19,123						

Civil Surgeons. Taken as a whole the table possesses a relative value, although the figures for individual districts probably only approximate those of the respective districts as per Government of Bengal, Municipal Department, letter No. 1188an., dated the 8th February 1918. to the Government of India, Education Department, letter No. 93, dated the 28th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1910.

Name of river and place where readings are taken.	Date.	Hour.	Reading on Gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.	
						Rise.	Fall.	1917.	1918.		
Ganges	Monghyr ...	25th July 1919	6 A.M. ...	20.37	101.83	122.20	...	0.10	117.50	114.60	
	... { Rajmahal ...	25th "	6 "	23.95	56.319	80.269	...	0.05	77.41	74.61	
	... { Goalundo ...	25th "	8 hours ...	23.10	...	...	0.10	...	22.00	22.00	
Brahmaputra	Ganhati ...	25th "	8 A.M. ...	25.40	148.76	174.16	...	0.10	175.26	176.76	
	... { Seraiganj ...	25th "	12 hours ...	40.10	...	...	Steady	...	...	...	
	... { Dibrugarh ...	25th "	8 A.M. ...	17.00	...	...	...	0.80	...	...	
Meghna	Bhairab Bazar ...	25th "	6 hours ...	16.58	1.61	18.19	0.08	...	...	...	
	... { Chandpur ...	25th "	16.50 "	12.25	1.61	13.86	0.25	...	...	...	
	... { Fenchuganj ...	25th "	7 A.M. ...	25.80	...	...	0.20	...	...	...	
Dhaleswari	... Sabhar ...	25th "	7 "	28.90	-8.62	20.28	0.10	...	...	...	
Bhagirathi	... Swarupganj ...	25th "	6 "	24.31	1.509	25.819	0.53	...	18.68	16.17	
Damodar	... Edilpur ...	25th "	6 "	9.42	92.58	102.00	...	1.16	...	...	
Lakhya	... Narayanganj ...	25th "	...	22.02	-5.59	16.43	0.21	...	...	...	
Madaripur Bil Route	... Takerhat ...	25th "	6 A.M. ...	12.05	-0.599	11.451	0.05	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Gauges	Monghyr ...	26th July 1919	6 A.M. ...	20.37'	101.83'	122.20'	Steady	118.50'	114.40'	
	... { Rajmahal ...	26th "	6 " ...	23.85'	56.319'	80.169'	...	77.86'	74.36'	
	... { Goalundo ...	26th "	8 hours ...	23.20'	...	...	...	22.00'	22.80'	
Brahmaputra	Gauhati ...	26th "	8 A.M.	25.30'	148.76'	174.06'	...	175.46'	176.66'	
	... { Serajganj ...	26th "	12 hours ...	40.00'	...	...	0.10'	...	...	
	... { Dibrugarh ...	26th "	8 A.M. ...	17.10'	...	...	0.10'	...	...	
Meghna	Bhairab Bazar ...	26th "	6 hours ...	16.75'	1.61'	18.36'	...	...	...	
	... { Chandpur ...	26th "	17.30 " ...	12.50'	1.61'	14.11'	...	...	...	
	... { Fenchuganj ...	26th "	7 A.M. ...	25.80'	...	...	Steady	...	...	
Dhaleswari	Sabhar ...	26th "	7 " ...	29.10'	-8.62'	20.48'	0.20'	...	...	
Bhagirathi	Swarupganj ...	26th "	6 " ...	24.57'	1.509'	26.079'	0.26'	18.87'	16.20'	
Damodar	Edilpur ...	26th "	6 " ...	8.33'	92.58'	100.91'	...	...	...	
Lakhya	Narayanganj ...	26th "	...	22.17'	-5.39'	16.58'	0.15'	...	...	
Madaripur Bil Route	Takerhat ...	26th "	6 A.M. ...	12.20'	-0.599'	11.601'	0.15'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	...	...	...	...	...	...	...	119.50'	114.10'	...
	{ Monghyr ...	6 A.M. ...	20.27'	101.83'	122.10'	...	0.10'	...	...	...
	{ Rajmahal ...	6 " ...	23.55'	56.319'	79.869'	...	0.39'	78.26'	74.16'	...
Brahmaputra	...	...	...	...	...	...	Steady	22.10'	22.80'	...
	{ Goalundo ...	8 hours ...	23.20'	...	...	...	...	...	...	...
	{ Gaurhati ...	8 A.M. ...	24.60'	148.76'	173.36'	...	0.70'	175.86'	176.56'	...
Meghna	...	...	...	...	...	...	0.10'	...	...	...
	{ Serajganj ...	12 hours ...	39.90'	...	...	...	...	...	...	...
	{ Dibrugarh ...	8 A.M. ...	16.50'	...	...	...	0.60'	...	...	...
Dhaleswari	...	...	...	...	...	...	0.33'	...	...	...
	{ Bhairab Bazar ...	6 hours ...	17.08'	1.61'	18.69'	...	...	...	...	...
	{ Chandpur ...	18 " ...	12.50'	1.61'	14.11'	...	Steady	...	...	...
Bhagirathi	...	...	...	...	...	...	0.10'	...	...	...
	{ Fenchuganj ...	7 A.M. ...	25.70'	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...
Damodar	...	...	...	...	...	...	Steady	...	...	...
	{ Sabhar ...	7 " ...	29.10'	- 8.62'	20.48'	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...
Lakhya	...	...	...	...	...	...	0.04'	20.01'	16.06'	...
	{ Swarupganj ...	6 " ...	24.53'	1.509'	26.039'	...	...	...	...	...
	{ Edilpur ...	6 " ...	11.00'	92.58'	103.58'	...	2.67'	...	...	...
Madaripur Bil Route	...	...	...	...	...	...	0.14'	...	...	...
	{ Narayanganj ...	...	22.31'	- 5.59'	16.72'	...	...	...	...	...
	{ Takerhat ...	6 A.M. ...	12.30'	- 0.599'	11.701'	...	0.10'	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	...	...	Monghyr ...	...	...	0-10'	...	121-30	114-00'	
	...	...	Rajmahal ...	...	...	...	0-10'	79-46'	74-06'	
	...	...	Goalundo ...	...	...	...	0-10'	22-20'	22-70'	
Brahmaputra	...	...	Ganhati ...	...	...	...	0-40'	176-06'	176-06'	
	...	...	Serajganj ...	...	...	...	0-30'	...	...	
	...	...	Dibrugarh ...	...	...	...	0-70'	...	...	
	...	...	...	...	...	...	...	...	...	
Meghna	...	...	Phairab Bazar	...	...	0-09'	...	...	...	
	...	...	Chandpur ...	...	...	Steady	...	...	...	
	...	...	Fenchuganj ...	...	...	...	0-10'	...	...	
	...	...	...	...	...	...	...	...	...	
Dhalasari	...	...	Sabbar ...	...	...	Steady	...	...	...	
Bhagirathi	...	...	Swaruganj ...	...	...	0-06'	...	21-21'	15-98'	
Damodar	...	...	Ediipur ...	...	...	Steady	...	...	...	
Lakhya	...	...	Narayanganj	...	...	0-11'	...	...	...	
Madaripur Bil Route	...	...	Takerhat ...	...	...	0-10'	...	...	...	



statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1919.

Name of river and place where readings were taken.	Date.	Hour.	Reading on gauge.	Value of zero above P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	29th July 1919	6 A.M.	20.37	101.83'	122.20'	Steady		122.50'	113.50'	
	29th "	"	23.45	56.319'	79.769'	Steady		80.26'	73.76'	
	29th "	8 hours	23.00	...	...	...	0.10'	22.40'	22.80'	
Brahmaputra	29th "	8 A.M.	24.10	148.76'	172.86'	...	0.10'	176.16'	175.66'	
	29th "	12 hours	39.40	...	...	...	0.20'	...	...	
	29th "	8 A.M.	15.40	...	...	...	0.40'	...	...	
	29th "	6 hours	17.25	1.61'	18.86'	0.08'	...	...	...	
Meghna	29th "	7-30 "	12.75	1.61'	14.36'	0.25'	...	...	...	
	29th "	7 A.M.	25.50	...	...	...	0.10'	...	...	
	29th "	7 "	29.10	-8.62'	20.48'	Steady		...	...	
Dhaleswari	29th "	"	24.37	1.509'	25.879'	...	0.22'	22.08'	15.84'	
Bhagirathi	29th "	"	10.25	92.58'	102.83'	...	9.75'	...	...	
Damodar	29th "	...	22.58	-5.59'	16.99'	0.16'	...	...	...	
Lakhya	29th "	6 A.M.	12.50	-0.599'	11.901'	0.10'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	30th July 1919	6 A.M.	19.97'	101.83'	121.80'	...	0.40'	123.30'	113.50'
	Rajmahal ...	30th "	6 "	23.35'	56.319'	79.669'	...	0.10'	80.96'	73.61'
	Goalundo ...	30th "	8 hours	23.00'	...	...	Steady	22.70'	22.90'	22.90'
Prabhaputra	Gauhati ...	30th "	8 A.M.	22.80'	148.76'	171.56'	...	1.30'	176.36'	175.06'
	Serajganj ...	30th "	12 hours	39.30'	...	...	...	0.10'	...	...
	Dibrugarh ...	30th "	8 A.M.	15.10'	...	...	...	0.30'	...	...
Meghna	Bhairab Bazar ...	30th "	6 hours	17.25'	1.61'	18.86'	Steady	...	...	...
	Chandpur ...	30th "	8-20 "	13.08'	1.61'	14.69'	0.33'	...	...	...
	Fenchuganj ...	30th "	7 A.M.	25.40'	...	...	...	0.10'	...	...
Dhaleswari	Sabhar ...	30th "	7 "	29.10'	- 8.62'	20.48'	Steady	...	...	...
Bhagirathi	Swarupganj ...	30th "	6 "	24.12'	1.509'	25.629'	...	0.25'	22.83'	15.62'
Damodar	Edilpur ...	30th "	6 "	8.75'	92.58'	101.33'	...	1.50'	...	...
Lakhya	Narayanganj ...	30th "	...	22.81'	- 5.59'	17.22'	0.23'	...	...	...
Madaripur Bil Route	Takerhat ...	30th "	6 A.M.	12.70'	- 0.599'	12.101'	0.20'	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 31st July 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Type of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Gauges	Monghyr ...	31st July 1919	6 A.M. ...	19.67'	101.83'	121.50'	...	0.30'	123.90'	113.40'
	... { Rajmabal ...	31st "	6 "	22.90'	56.319'	79.219'	...	0.45'	81.66'	73.51'
	... { Goalundo ...	31st "	8 hours ...	23.10'	...	...	0.10'	...	23.00'	22.60'
Brahmaputra	Gauhati ...	31st "	8 A.M. ...	22.00'	148.76'	170.76'	...	0.80'	175.96'	174.36'
	... { Serajganj ...	31st "	12 hours ...	39.30'	...	...	Steady	...	...	...
	... { Dibrugarh ...	31st "	8 A.M. ...	15.40'	...	...	...	0.10'	...	...
Meghna	Bhairab Tazar ...	31st "	6 hours	17.33'	1.61'	18.94'	0.08'	...	...	...
	... { Chandpur ...	31st "	9 "	13.50'	1.61'	15.11'	0.42'	...	...	...
	... { Fenchuganj ...	31st "	7 A.M. ...	25.20'	...	...	...	0.20'	...	...
Dhaleswari	... Sabhar ...	31st "	7 "	29.00'	-8.62'	20.38'	...	0.10'	...	...
Bhagirathi	... Swarupganj ...	31st "	6 "	23.81'	1.509'	25.319'	...	0.31'	23.79'	15.16'
Damodar	... Edilpur ...	31st "	6 "	7.67'	92.58'	100.25'	...	1.08'	...	...
Lakhya	... Narayanganj ...	31st "	...	22.16'	-5.59'	17.37'	0.15'	...	...	...
Madaripur Dil Route	Takerhat ...	31st "	6 A.M. ...	13.00'	-0.599'	12.401'	0.30'	...	...	...



## IRRIGATION DEPARTMENT, BENGAL.

**Abstract Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of May 1919, as compared with the corresponding month of the previous year.**

Canals.	1919-20.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	7,964	13,994	2,061	6,012	4,375	7,830
Hijili Tidal Canal ...	10,571	19,511	347	2,021	8,748	16,136
Total ...	18,535	33,505	2,408	8,033	13,123	23,966
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	36,576	61,446	1,600	2,875	25,889	54,768
Tolly's Nala ...	18,019	36,895	13,200	21,100	5,618	11,619
Madaripur Bheel ...	111,752	218,058	124	837	22,728	44,562
Total ...	166,347	316,399	14,924	24,812	54,235	110,949
Magrahat Channels...	6,871	12,330	...	...	1,074	2,109
Orissa Coast Canal ...	4,702	9,265	451	2,432	1,429	2,699
Nadia Rivers ...	1,414	3,494	253	1,453	643	1,510
GRAND TOTAL ...	179,334	361,488	15,628	28,697	57,381	117,267

Canals.	1918-19.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	8,551	15,808	1,375	2,950	5,393	10,363
Hijili Tidal Canal ...	5,761	6,776	202	977	4,834	5,641
Total ...	14,312	22,584	1,577	3,927	10,227	16,004
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	42,045	93,170	4,530	7,845	25,162	55,603
Tolly's Nala ...	15,217	30,800	6,850	14,866	5,015	9,560
Madaripur Bheel ...	131,810	277,467	353	560	29,801	63,597
Total ...	189,072	401,437	11,733	23,271	59,978	128,760
Magrahat Channels...	2,431	4,955	...	...	943	1,575
Orissa Coast Canal ...	3,440	5,810	1,701	5,446	1,209	2,084
Nadia Rivers ...	3,567	7,310	4	5	1,260	2,858
GRAND TOTAL ...	198,510	419,512	13,438	28,722	63,390	135,277

CALCUTTA,  
The 29th July 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Olroular and Eastern Danals for the week ending Saturday, the 2nd August 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 2ND AUGUST 1919.			WEEK ENDING SATURDAY, THE 2ND AUGUST 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	332	48,630	770	565	79,340	1,266
Jute ...	51	32,315 <sup>o</sup>	350	78	47,159 <sup>†</sup>	417
Firewood ...	70	44,800	668	148	49,350	843
Other articles ...	573	152,413	1,591	772	216,496	2,308
Total ...	1,026	278,158	3,388	1,563	392,345	4,834
Empty boats and rafts ...	546	...	1,216	434	...	1,348
GRAND TOTAL	1,572	278,158	4,604	1,997	392,345	6,182

Mds.  
34,178

\* Weight by canal measurement ... 49,763<sup>†</sup>  
† Ditto ditto ...

CALCUTTA,  
The 5th August 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

*Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 26th July 1919.*

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
20th July	65.05	...	...	...	...	65.15	Rising.
21st "	65.3	...	...	...	...	65.5	Do.
22nd "	65.55	...	...	...	...	65.7	Do.
23rd "	65.8	...	...	...	...	65.9	Do.
24th "	65.9	...	...	...	...	65.95	Do.
25th "	66.0	...	...	...	...	66.0	Do.
26th "	66.1	...	...	...	...	66.1	Do.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1908	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
21st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	Taken at low tide.
12th "	1917	...	...	...	67.1	
21st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
5th "	1914	...	...	...	50.60	Taken at low tide.
22nd February	1915	...	...	...	50.30	
15th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 28th July 1919.

W. J. KERR,  
Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 26th July 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum (a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum (a)	Remarks.
1919.					
20th July	8 A.M.	Zero of gauge is at mean sea-level.	55.50	54.41	B. M. on College stop corrected (P. W. D.) 64.93.
21st "	8 "		56.50	54.51	
22nd "	8 "		56.80	54.76	
23rd "	8 "		57.30	54.91	
24th "	8 "		57.55	54.91	
25th "	8 "		57.50	54.61	
26th "	8 "		57.60	54.41	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No.  $\frac{2876}{8.33.17}$ , dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

		Old value.	According to corrected datum (a)
The previous year	Highest water-level	66.62 on 30th August 1918	61.71
Ditto	Lowest "	41.70 on 21st April 1918	36.89
Record	Highest "	69.25 on 26th August 1879	64.44
Do.	Ditto "	69.08 on 9th September 1885	64.27
Do.	Ditto "	68.34 on 25th August 1906	63.47
Do.	Ditto "	68.21 on 26th August 1890	63.40
Do.	Lowest "	37.63 on 25th April 1884	32.42
Do.	Ditto "	38.18 on 14th—15th April 1888	33.32
Do.	Ditto "	39.02 on 21st—22nd April 1897	34.21
Do.	Ditto "	39.28 on 6th—7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 26th July 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 26th July 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
20th July	7 A.M.	22.2	22.2	22.4	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
21st "	7 "	22.5	22.5	22.5	
22nd "	7 "	22.6	22.6	22.7	
23rd "	7 "	22.8	22.8	22.8	
24th "	7 "	23.0	23.0	22.9	
25th "	7 "	23.1	23.1	22.9	
26th "	7 "	23.2	23.2	22.8	

The previous year	Highest water-level	25.2 on 1st September 1918.
Ditto	Lowest "	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	Highest "	25.75 on 26th August 1906.
Record (average flood in Brahmaputra and Ganges)	Ditto "	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	Ditto "	25.66 on 11th to 17th and 21st August and on 1st to 3rd September 1898.
Record (H.F. in Brahmaputra only)	Ditto "	25.66 on 21st July 1900.
Do.	Lowest "	1.0 on 8th February 1914.
Do.	Ditto "	2.42 on 18th March 1908.
Do.	Ditto "	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	Ditto "	8.16 on 9th to 13th March 1885.
Do.	Ditto "	8.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

FARIDPUR,  
The 26th July 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, AUGUST 13, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING THE 2ND AUGUST 1919.

DURING the week the rainfall was general and sufficient. Agricultural prospects are good. Sixty-two relief works were open during the week. The number of persons relieved on works was 6,346. The number of persons in receipt of gratuitous relief was 20,445, viz., 15,297 on cash doles in 128 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The total number of persons relieved was 26,791. The increase in the number of persons on relief works was due to a partial cessation of field operations. The number of persons relieved on private works was 600. The charitable societies relieved 631 persons on weekly doles and 1,450 on daily doles and by cooked food. The position in regard to crime was unchanged. The physical condition of workers and public health are generally good. Sporadic cases of influenza are reported. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5 to 5½ seers per rupee. Burma rice is being sold.

M. C. MCALPIN,

Secy. to the Govt. of Bengal.

DACCA, the 11th August 1919.



**RESOLUTION REGARDING PEACE CELEBRATIONS.**

**GOVERNMENT OF BENGAL.**

**POLITICAL DEPARTMENT.**

**Political Branch.**

DACCA, THE 11TH AUGUST 1919.

**RESOLUTION—No. 2028P.D.**

In view of the announcement made by the Government of India that the main peace celebrations will be held in India in the cold weather, the Governor in Council has decided to appoint a small Committee to consider the form which the celebrations should take in Calcutta and to organise suitable arrangements. The leading Calcutta Associations which were consulted in the matter have nominated their representatives and the Governor in Council is now pleased to appoint the following gentlemen to be members of the Committee:—

- (1) Major E. D. Raymond, D.S.O., Deputy Assistant Adjutant and Quartermaster-General, representing the General Officer Commanding the Presidency Brigade.
- (2) The Hon'ble Mr. W. E. Crum, O.B.E., representing the Bengal Chamber of Commerce.
- (3) The Master of the Calcutta Trades Association.
- (4) Maharaja Sir Pradyot Kumar Tagore Bahadur, Kt., representing the British Indian Association.
- (5) The Hon'ble Maharaja Sir Manindra Chandra Nandi, K.C.I.E., representing the Bengal Landholders' Association.
- (6) Mr. G. H. C. Ariff, representing the Indian Muslim Association.
- (7) Khan Bahadur Maulvi Abdus Salam, representing the Central National Muhammadan Association.
- (8) The Hon'ble Raja Reshee Oase Law, C.I.E., representing the Bengal National Chamber of Commerce.
- (9) Babu Keshoram Poddar, representing the Marwari Association.
- (10) Dr. S. K. Mullick, M.D., C.B.E., representing the Calcutta Corporation.
- (11) Mr. N. C. Sircar, representing the Indian Association.
- (12) The Chairman of the Corporation of Calcutta.
- (13) The Commissioner of Police, Calcutta.
- (14) The Commissioner of the Presidency Division.
- (15) The Collector of Calcutta.

3. The Chairman of the Calcutta Corporation will convene a preliminary meeting of the Committee at an early date for the purpose of electing a President and executive officers and arranging the general lines of action. The Committee are authorised to co-opt any additional members whose services would be useful, and it is open to them to act either as a whole or through sub-committees. It is the desire of Government to give the Committee a free hand in every respect in organising celebrations worthy of Calcutta, but the Governor in Council will be glad to give all the assistance in his power.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Chairman of the Calcutta Corporation for information and necessary action.

Ordered also that a copy of this resolution be forwarded to each member of the Committee for information and guidance.

Ordered also that a copy be published in the *Calcutta Gazette* for general information.

By order of the Governor in Council,

J. H. KERR,

*Chief Secy. to the Govt. of Bengal.*



**REPORT ON THE WORKING OF THE LICENSED WAREHOUSE  
AND FIRE BRIGADE ACT, I OF 1893.**

**NOTIFICATION.**

No. 311zM.—*The 8th August 1919.*—The following is published for general information, under section 41 of the Licensed Warehouse and Fire Brigade Act, 1893 (Bengal Act I of 1893).

S. W. GOODE,

*Offg. Secy. to the Govt. of Bengal.*

No. <sup>927M.</sup><sub>1-5</sub>, dated Chinsura, the 14th July 1919.

Memo. by—J. N. GUPTA, Esq., M.B.E., I.C.S., Commissioner of the Burdwan Division.

COPY, with copies of the enclosures, submitted to the Secretary to the Government of Bengal, Municipal Department, Municipal Branch.

No. <sup>1257G.</sup><sub>XXIV-17</sub>, dated Howrah, the 2nd July 1919.

Memo. by—The Magistrate of Howrah.

COPY with the copies of the enclosures forwarded to the Commissioner of the Burdwan Division for information.

No. 778G., dated Howrah, the 20th June 1919.

From—THE HON'BLE BABU MAHENDRA NATH RAY, M.A., B.L., C.I.E.,  
Chairman of the Howrah Municipality,

To—The Magistrate of Howrah.

I HAVE the honour to submit herewith the statements showing the warehouses licensed under the Fire Brigade Act, I of 1893, and receipts and disbursements on account of the same for the year 1918-19.

The collection of fees works out to be 90 per cent. of the current demand and 55 per cent. of the arrear demand, as against 98 per cent. of the current demand and 53 per cent. of the arrear demand reported for the year 1917-18.

The demand for the year 1918-19 amounts to Rs. 20,739 and the collection amounts to Rs. 18,753, as against the demand of Rs. 18,301 and the collection of Rs. 17,895 for the year 1917-18.

This two-fold increase in the demand and collection as aforesaid necessitated no revision of the scale of fees levied under section 10 of the Act.

The direction contained in the first proviso to section 10 of the Act was followed.



## STATEMENT OF RECEIPTS AND DISBURSEMENT, 1918-19.

## Receipt.

	DEMAND.			COLLECTION.			REMISSION.			BALANCE.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(a) To balance on the 1st April 1918.	...	...	...	...	...	...	...	...	...	...	...	...
(b) License fee levied under sections 10 and 24.	406 (Ex. on demand) 2,052 2,458	20,789	21,195	405 (Ex. on collection) 2,052 2,457	18,763	21,210	...	...	...	...	1,926	1,926
(c) Mutation fee levied under section 11.	...	...	10	...	10	10	...	...	...	...	...	...
(d) Rates levied under section 23 (1) (a).	...	...	...	...	...	...	...	...	...	...	...	...
(e) Rates levied under section 23 (1) (b).	...	...	...	...	...	...	...	...	...	...	...	...
(f) Rates levied under section 23 (1) (c).	...	...	...	...	...	...	...	...	...	...	...	...
Fines and penalties under the Act.	...	...	...	...	40	40	...	...	...	...	...	...
Contribution from General Fund.	...	...	...	...	...	14,300	...	...	...	...	...	...
GRAND TOTAL	...	...	...	...	...	35,371	...	...	...	...	...	...

## Disbursement.

	Rs.
1. Establishment	Nil.
2. Contribution to Fire Brigade	35,571
3. Any other special items as specified	Nil.
Closing balance on the 31st March 1919	Nil.

## STATEMENT II,

## List of Licensed Warehouses under the Fire Brigade Act (Act I of 1893) during the year 1918-19.

Name of Street.	Street of holding number with the number of Warehouses shown in brackets where they are more than one.
Andul Road	... 2.
Bemares Road	... 18.
Bandaghat Road	... 25, 29, 34, 20.
Babu Danga Road	... 37, 42-2.
Banerjee Lane	... 4, 5.
Baptist Burial Ground Road	... 3.
Barabagan Lane	... 1.
Belilios Road	... 119, 121, 411, 226-1.
Banstolla Ghat Road	... Nil.
Belilios 1st Bye Lane	... 2.
Baishnabpara Lane	... 7.
Circular Road	... 1, 16, 45, 88, 112, 113, 126, 150, 548, 47.
College Road	... 77, 56.
Cowie's Ghat Road	... Nil.
Dharmatola Lane	... 44, 92-1.
Dhobapara Lane	... 1.
Dasanibagan Lane	... 56, 60, 119-1, 138, 55.
Dobson Road	... 45, 56, 45.
Foreshore Road	... 62, 62-2, 62-4, 62-4-1, 62-5, 62-6, 62-7, 62-8, 62-9 and 62-11, 62-13, 62-14, 62-15, 62-16, 62-17, 62-19, 62-20, 62-22, 62-24, 63, 111, 139, 140, 140-1, 140-2, 141-2, 141-3, 141-4, 142, 143, 144-1, 144-2, 144-3, 144, 145, 145-2, 146, 131(3).



Name of Street.	Street of holding number with the number of Warehouses shown in brackets where they are more than one.
Grand Trunk Road	... 6, 48, 90, 91, 95, 115, 122, 123, 140, 171, 171-1, 185, 205, 220-1, 222, 233, 251, 267, 286, 340-2, 342, 348, 352, 355, 355-1, 361, 366, 410, 412, 442, 469, 471, 474, 475, 482-1, 482-1(2), 499, 506, 510, 517, 520.
Girish Ghosh Lane	... 44, 47, 54.
Golabari Road	... 5, 12, 53, 114.
Gurgola Ghat Road	... 2.
Grierson Road	... 2, 4.
Gopal Gobinda Bose Lane	... 1.
Girish Banerjee Lane	... 22.
Howrah Road	... 3, 6, 13, 23, 24(2), 32, 39, 67, 69(2), 74, 76, 90, 107, 108, 109.
Hurrogunge Road	... 67, 68, 118.
Harimohon Bose Road	... 12.
Harcourt Lane	... 13, 51.
Joyabibi Lane	... 35, 36.
Jeliapara Lane (Salkia W. 3)	... 26(2), 38, 68-1(2), 89.
Jeliapara Lane (Ramkrishnapur)	... 135.
Joynarain Babu and Ananda Dutt Lane	... 66.
Khetter Mitra Lane	... 2, 4, 23, 90, 91(2), 100, 102, 102-1, 103, 104.
Kings Road	... 59.
Khurut Road	... 9, 18, 27, 28, 29, 55, 59, 162, 164, 174, 176, 190, 192, 198, 202, 211, 217.
Krishna Kumar Bhattacharjee Lane	... 6-1.
Koarapukur Lane	... 1, 17.
Kantapukur Lane	... 14.
Kalachand Nundi Lane	... Nil.
Kolabagan Lane	... Nil.
Kasundia Road	... 74.
Lakshminarayan Chakrabutty Lane	... 1.
Madhob Ghose Lane	... Nil.
Moraporaghat Road	... 3, 4, 6, 7, 8, 9, 11.
Mour Bagan Lane	... Nil.
Mahendra Nath Ray Lane	... 7.
Makardah Road	... 21-1, 22.
Naskarpara Lane	... 160.
Nundibagan Bye Lane	... 6.
Nursing Dutt Road	... 15, 100.
Old Ghuseri Road	... 12, 14, 15, 17, 18, 19, 21(2), 28, 29, 31(2), 33, 42, 49, 51, 53(2), 54, 57, 60, 62-1, 63(2), 64, 66, 87, 90, 100, 107, 122, 124, 146, 153-1, 154, 155, 156, 157-1, 158, 162, 163, 178, 180, 188, 194(2).
Panchanantola Road	... 2, 3, 9, 68, 232, 250, 251, 81, 90-1, 95, 135-1.
Parks Garden Lane	... 14, 59.
Rosemary Lane	... 4, 64.
Ramkrishnapur Lane	... 33.
Ramkrishnapur Ghat Road	... 7, 8, 28, 32, 43.
Raj Narayan Chaudhuri Ghat Road	... 14, 46.
Stalkart's Lane	... 8.
Sitanath Bose Lane	... 28, 52.
Sribash Dutt Lane	... 17.
Strand Road	... 8-1(2).
Sripur Road	... 45, 56, 182-1, 190, 197.
Shalimar Road	... 41.
Shakerbazar Lane	... 28.
Telkulghat Road	... 20, 23.
Upendra Mitter Lane	... 24, 25, 29, 38, 41.



## DEPARTMENT OF AGRICULTURE, BENGAL.

### First Forecast of the Cotton Crops of Bengal, 1919-20.

*(Note.—On an average of the five years ending 1916-17, the area under the cotton crops in Bengal has represented some 0·3 per cent. of the total area under cotton in India.)*

THERE are two crops—early and late. The “early” crop is chiefly grown in the Chittagong Hill Tracts and in the State of Hill Tippera and to a small extent in other districts. The “late” crop is grown in Bankura and Midnapore.

**Character of the Season.**—Owing to insufficient rain at sowing time, the weather was not generally favourable. Subsequent rainfall, however, being generally moderate has improved the prospects of the crop and the present condition, on the whole, is reported to be good.

**Area Sown.**—The area sown with early cotton is reported to be 70,272 acres this year, against 70,097 acres reported in the corresponding forecast of last year.

Of the late crop, 303 acres are reported to have been sown up to date against 700 acres in the corresponding forecast of last year.

ROBERT S. FINLOW,

*Offg. Director of Agriculture, Bengal.*

DACCA :

*The 5th August 1919.*



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 7th August 1919.

**Summary.**—Excepting heavy showers in a few districts, light to moderate rain was general. Transplanting of winter paddy and reaping of autumn paddy and cutting, steeping and washing of jute are progressing. More rain is wanted in North Bengal for transplanting of winter paddy and steeping of jute. Some damage to jute by insect pests is reported from some places of West Bengal. The prospects of standing crops are reported to be fairly good. The average price of common rice for the province has risen by about 2·37 per cent. as compared with that of the previous week. The average number of persons engaged daily on test works in the Brahmanbaria subdivision of Tippera district was 84.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SERMS. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	9·66	5½	5½ <sup>5</sup> / <sub>16</sub>	Transplanting of <i>aman</i> paddy continues. Fodder and water are sufficient. Condition and prospects of jute are good. Damage by insects is reported from some places in Basirhat and Barasat subdivisions. The effects of weather are good. Harvesting of jute has commenced in the Barasat and Basirhat subdivisions.
	Diamond Harbour	7·99	5½	5½	
	Barrackpore	3·81	5	5	
	Barasat ...	4·02	5½	5½	
	Basirhat ...	4·84	5½	6½	
2	NADIA ...	4·08	5½ <sup>7</sup> / <sub>16</sub>	5½ <sup>7</sup> / <sub>16</sub>	Weather cyclonic. Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy and jute continues. Effects of weather are favourable to jute. Some damage to jute has been done by insect-pests. Transplanting of <i>aman</i> paddy continues.
	Kushtia ...	0·87	5	5	
	Meherpur ...	2·16	5½	6½	
	Chuadanga ...	(n)	(n)	5½	
	Ranaghat ...	4·53	5½	5½	
3	MURSHIDABAD	0·93	4½	5	Weather stormy and cloudy with occasional rain. Prospects of standing crops are fair. Transplanting of <i>aman</i> paddy continues. More rain is wanted for the operation. Condition and prospects of jute are fair. Effects of weather are favourable to its growth. Some damage by insect pests is reported from Bhakri in Sadar subdivision. Harvesting has not commenced. Cattle-disease is reported from some parts in the Kandi, Sadar and Jangipur subdivisions. Fodder is sufficient. No large import or export. Agricultural loans and gratuitous relief are being given for distress in some parts of the district.
	Lalbagh ...	2·30	5	5½	
	Jangipur ...	0·81	4½	4½	
	Kandi ...	0·88	5	5½	
4	JESSORE ...	2·18	5	6	Weather stormy. Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy continue. Standing crops are doing well. Condition and prospects of jute are fair. Harvesting continues. Fodder is sufficient.
	Jhenidah ...	3·67	5½	5½	
	Magura ...	2·12	5	6	
	Narail ...	2·09	5	5½	
	Bangaon ...	4·34	6	6	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
5	KHULNA ...	Inches 3.72	4½	6	Transplantation of <i>aman</i> paddy is going on. Some damage to paddy seedlings by temporary rise of water is reported. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Harvesting is going on. Fodder and water are sufficient.
	Satkhira ...	5.07	6	6	
	Bagerhat ...	5.07	4½	5½	
6	BURDWAN ...	3.53	5	5	Weather cloudy. Transplanting of <i>aman</i> paddy is progressing. Jute, sugarcane and other crops are doing well. Harvesting of jute has commenced in Kalna subdivision. Cattle disease is reported from Galsi and Sahebganj.
	Asansol ...	6.16	5	4½	
	Katwa ...	1.86	5½	5½	
	Kalna ...	1.60	4½	5½	
7	BIRBHUM ...	1.67	5½	5½	Transplantation continues. More rain is badly wanted in places. Fodder and water are sufficient.
	Rampurhat ...	2.87	5	5	
8	BANKURA ...	1.65	5½	5	Transplantation of paddy has been facilitated by plentiful rain. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	4.50	5½	5½	
9	MIDNAPORE	6.40	5½	5½	Transplantation of winter rice continues. Condition and prospects of jute are fair. Fodder and water are sufficient. Cattle disease is reported from several thanas of Contai subdivision.
	Ghatal ...	5.29	5½	5½	
	Tamluk ...	5.80	6	6	
	Contai ...	8.63	6½	6½	
10	HOOGHLY ...	4.49	4½	4½	Condition and prospects of jute are fair; the effects of weather on the growth of the crop are favourable. Damage by insect-pests is reported from Sadar and Serampore subdivisions. Harvesting is going on in Serampore subdivision. Fodder is sufficient.
	Serampore ...	2.92	5½	5½	
	Arambagh ...	6.24	6	6	
11	HOWRAH ...	8.58	5	5	There was heavy rain during the week. Condition of jute is good. Harvesting of jute has commenced in low lands. Fodder is sufficient. No damage done to jute.
	Ulubaria ...	12.64	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	2.36	4½	4½	The prospects of jute and other standing crops are favourable. Harvesting of jute continues. Fodder is sufficient.
	Naogaon ...	0.68	4½	5	
	Nator ...	2.31	4½	4½	
13	DINAJPUR ...	0.70	5½	5½	Prospects of jute and <i>bhadoi</i> paddy are fair. Harvesting continues. More rain is wanted at Sadar and Thakurgaon subdivisions for transplanting of winter paddy. Fodder is sufficient.
	Thakurgaon ...	0.88	6	6	
	Balurghat ...	2.95	5	5	



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN RUPEES, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
14	JALPAIGURI	2.77	5½	5½	Weather hot. Harvesting of jute has commenced. Rain is insufficient for transplanting of winter paddy. Condition of <i>bhadoi</i> crops is fair. Fodder is sufficient.
	Alipur ...	0.92	5	5	
15	DARJEELING	5.13	4½	4½	Harvesting of potatoes and maize continues. Standing crops are in good condition. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Harvesting has not begun. Transplanting of winter paddy and <i>marua</i> is in progress and that of autumn paddy is retarded owing to drought in Terai. The supply of fodder and water is sufficient. Stock of food-grains is insufficient. Cattle-disease is reported from places.
	Kurseong ...	6.73	4½	5	
	Siliguri ...	2.23	4	4	
	Kalimpong ...	2.89	5	5	
16	RANGPUR ...	1.83	4	4½	Cutting, steeping and washing of jute are in progress. No damage done to jute. New jute is being brought to market. Harvesting of <i>aus</i> paddy is in progress. Transplantation of winter rice is going on. More rain is wanted for steeping of jute and transplanting of winter rice. Fodder and water are sufficient. The price of rice is rising.
	Nilphamari	0.70	4½	5	
	Kurigram ...	0.56	5	5	
	Gaibandha ...	1.47	4½	5	
17	BOGRA ...	2.06	4½	4½	Harvesting of <i>aus</i> paddy, cutting and steeping of jute and transplanting of winter paddy continue. Prospects of jute are fair. Fodder is insufficient in flooded area.
18	PABNA ...	4.91	5	5	Prospects of <i>aus</i> paddy are fair but it has slightly been damaged by flood in the Sadar subdivision. Jute and <i>aman</i> paddy are suffering in some places for want of sufficient rain. Scarcity of fodder continues.
	Sirajganj ..	1.12	4½	5½	
19	MALDA ..	2.14	5	5	Weather hot and cloudy. Transplanting of winter paddy continues. Prospects of jute are fair. No damage to crop is reported. Harvesting of <i>bhadoi</i> paddy continues and that of jute has commenced in places. Fodder and water are sufficient. Cattle-disease is reported from Gomostapur and Kaliachak thanas.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
20	COOCH BEHAR	0·97	(n)	6½	Weather hot with occasional rains. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for winter paddy and transplantation of seedlings are in progress. Condition of jute and effects of weather on its growth are good. Cutting, steeping and washing are going on. Fodder is sufficient.
21	DACCA ...	1·54	4½	4½	Weather seasonable. Condition and prospects of deep water <i>aman</i> paddy are good. Harvesting of jute and sugarcane continues. Prospects of jute are fair. In some parts of the South Sadar subdivision crops have suffered some damage on account of sudden rise of water.
	Manikganj ...	0·79	5½	4½	
	Narayanganj	1·68	4½	5	
	Munshiganj*	1·45	5	4½	
22	MYMENSINGH	0·71	4½	4½	Weather hot. More rain is badly wanted. Transplantation of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Prospects of standing crops are fair. Fodder and water are sufficient.
	Jamalpur ...	0·84	4½	4½	
	Tangail ...	Nil	4½	4½	
	Netrakona ...	0·38	4½	4½	
	Kishorganj...	1·92	4½	4½	
23	FARIDPUR ...	2·60	4½	4½	Effects of weather are fair on the standing crops. Harvesting of jute and <i>aus</i> paddy continues. Prospects are fair. Insufficiency of fodder is reported from Gopalganj subdivision.
	Goalundo ...	4·00	4½	4½	
	Madaripur ...	2·29	4½	4½	
	Gopalganj†...	2·15	4½	5	
24	BAKARGANJ (BARISAL).	5·03	4½	4½	Weather cyclonic for some time. Prospects of jute are fair and those of other crops not good owing to high flood. Weather is not favourable to jute. No damage done to the crop. Harvesting has commenced. Fodder is sufficient.
	Pirojpur ...	(n)	(n)	5	
	Patuakhali...	7·88	5	5	
	Dakshin Shalabazpur (Bhola).	7·42	(n)	4½	
25	CHITTAGONG	12·09	5½	5½	Prospects of standing crops are good. Transplantation of <i>bhadoi</i> paddy is finished. Harvesting of <i>aus</i> crop is going on. <i>Panga</i> salt is selling at 11 and 9 seers per rupee at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	10·07	5	5	
26	TIPPERA (COMILLA).	0·94	4½	4	The prospects of <i>aus</i> paddy are fair and those of jute are good. Some damage to jute and <i>aus</i> paddy by flood is reported from Chandpur subdivision. Harvesting of jute and <i>aus</i> paddy and transplanting of <i>aman</i> paddy are going on; 83 men and 1 child worked daily on an average in test works and for eradicating water hyacinth in Brahmanbaria subdivision. Price of rice is still very high.
	Brahmanbaria.	1·76	5	5	
	Chandpur ...	2·29	4½	4½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
27	NOAKHALI ...	7.34	4½	4	Weather seasonable. Prospects of standing crops are good. Prospects of jute are fair in the Sadar subdivision and good in the Feni subdivision. Effects of weather on its growth are fair in Sadar and good in Feni subdivisions. Harvesting continues. Fodder sufficient.
	Feni ...	3.04	{ 4½ 5½	{ 4½ 5½	
28	CHITTAGONG HILL TRACTS.	5.38	5	5	Prospects of <i>jhum</i> crops are good. Plough cultivation is progressing. Fodder is sufficient.

\* And rice.

J. C. ROY,  
for Director of Agriculture, Bengal.

Dacca, the 11th August 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 9th August 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	8 4 0	.....	0 3 3	0 3 6
" medium ...	8 7 0	.....	0 3 6	0 3 9
Patnai, coarse ...	7 10 0	8 0 0	0 3 3	0 3 6
" medium ...	8 2 0	8 6 0	0 3 6	0 3 9
Nagra, coarse ...	7 12 0	8 0 0	0 3 3	0 3 6
" medium ...	8 3 0	8 7 0	0 3 6	0 3 9
Dudhkalma ...	7 14 0	8 4 0	0 3 6	.....
Rangoon Boiled ...	.....	.....	0 3 0	.....
Kajla ...	7 0 0	7 4 0	0 3 0	.....
Wheat, Dudhia ...	8 0 0	.....	.....	.....
" Jamali ...	7 8 0	.....	.....	.....
Gram, Patnai (whole) ...	7 2 0	7 6 0	0 2 9	0 3 0
" dal ...	8 10 0	9 0 0	0 4 0	0 4 6
Mung " (Hari) ...	12 4 0	12 12 0	0 8 0	.....
" " (Krishna) ...	12 0 0	12 4 0	0 6 6	.....
Arhar " ...	8 4 0	11 4 0	0 4 0	0 6 0
Masur " (split) ...	7 2 0	8 2 0	0 3 0	0 5 0
" " (Khanri)...	9 12 0	10 8 0	0 4 6	0 5 6
Kalai " ...	7 12 0	8 12 0	0 3 6	0 5 0
Salt ...	3 3 6	3 5 6	0 1 9	.....
Sugar (Brown Java) ...	19 12 0	.....	0 8 0	0 10 6
Gur, Bheli ...	.....	.....	0 4 6	0 5 0
" Bhursut ...	8 12 0	9 0 0	0 5 0	.....
Milk ...	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil ...	38 8 0	40 0 0	0 14 0	1 2 0
Flour, country ...	9 6 0	10 6 0	0 4 6	0 5 6
Atta, No. 3 ...	7 9 0	} .....	0 4 0	0 5 6
" " 2½ ...	7 12 0			
" " B ...	10 10 0			
Suji ...	9 9 0	10 12 0	0 4 6	0 6 6
Ghee (Bhadwa, Matki, etc.) ...	88 0 0	89 8 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.) ...	84 0 0	85 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)...	80 0 0	81 0 0	2 4 0	.....
Maize ...	6 4 0	7 0 0	.....	.....
Potato ...	6 8 0	8 0 0	0 3 6	0 4 0
Patal ...	5 4 0	6 0 0	0 3 0	0 3 6
Brinjal ...	.....	.....	0 2 0	0 3 0
Onions ...	3 10 0	4 2 0	0 1 9	0 2 6
Fish, Rahu ...	30 0 0	32 0 0	0 14 0	0 15 0
Mutton (2nd class) ...	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes) ...	.....	.....	0 3 0	0 4 0

N.B.—This is an abstract of prices at the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolla Bazar, Mallick Bazar and Jogu Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 11th August 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of July 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	2 12 0	3 0 0	3 0 0	3 7 0	...
Chittie Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 0 0	3 10 0	2 2 0	2 4 0	3 14 0	3 8 0	...
Kalna ...	...	...	...	...	...	...	...
Raipuraj ...	...	...	...	...	...	...	...
Midnapore ...	4 0 0	4 2 0	1 12 0	2 1 0	2 0 0	3 8 0	...
Chittagong ...	(c)	4 0 0	(c)	...	2 14 0	2 14 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 4 0	4 8 0	2 0 0	3 0 0	3 4 0	4 0 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 8 0	4 5 0	2 0 0	2 12 0	3 5 0	3 5 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	4 8 0	1 12 0	2 14 0	3 0 0	3 4 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 8 0	2 0 0	3 2 0	3 0 0	...
Chittie Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 0 0	3 4 0	1 12 0	2 2 0	3 10 0	3 2 0	...
Kalna ...	...	...	...	...	...	...	...
Raipuraj ...	...	...	...	...	...	...	...
Midnapore ...	3 14 0	4 0 0	1 7 0	2 0 0	2 12 0	3 0 0	...
Chittagong ...	(c)	4 0 0	(c)	...	2 12 0	2 12 0	2 10 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 0 0	4 0 0	1 12 0	2 12 0	3 2 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 8 0	4 4 0	1 10 0	2 8 0	3 0 0	3 0 0	3 10 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	4 8 0	3 8 0	1 8 0	2 8 0	2 10 0	2 0 0	3 0 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, &c., in the under-mentioned marts of Bengal for the second-half of July 1918.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	8 8 0	7 0 0	7 12 0	7 8 0	6 14 0
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 8 0	8 8 0	5 2 0	6 0 0	9 8 0	7 8 0	6 12 0
Kalpa ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 8 0	3 12 0	4 14 0	6 4 0	6 8 0	5 12 0
Chittagong ...	10 8 0	12 0 0	8 0 0	7 8 0	10 0 0	10 0 0	7 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	9 0 0	8 12 0	5 0 0	6 0 0	6 4 0	6 12 0	6 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	8 11 0	10 11 0	3 4 0	7 8 0	7 4 0	8 0 0	9 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	9 0 0	5 0 0	6 4 0	6 12 0	7 2 0	6 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	4 8 0	6 0 0	6 6 0	5 14 0
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	7 8 0	3 4 0	4 2 0	5 4 0	5 0 0	5 8 0
Kalpa ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 4 0	7 8 0	3 0 0	4 4 0	5 4 0	5 12 0	5 4 0
Chittagong ...	7 0 0	7 0 0	3 8 0	4 6 0	5 0 0	5 0 0	5 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	8 8 0	8 0 0	4 0 0	5 8 0	5 12 0	5 10 0	5 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 12 0	7 8 0	3 0 0	4 10 0	5 2 0	5 12 0	5 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	9 8 0	8 8 0	3 12 0	4 12 0	5 8 0	6 6 0	6 8 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of July 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	5 0 0	5 0 0	5 5 0	5 0 0	4 3 0	4 10 0	4 6 0
Chetla Hat	...	...	...	...	...	...	...
Burdwan	5 5 0	5 0 0	4 14 0	3 12 0	5 6 0	6 0 0	...
Kalna	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...
Midnapore	5 12 0 to 5 0 0	5 12 0 to 5 0 0	5 4 0	5 0 0	5 3 0	5 4 0	...
Chittagong	...	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...
Dacca	...	...	...	...	...	...	4 8 0
Narayanganj	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...
Pabna	(a)	5 12 0	...	4 0 0	...	...	4 4 0
Sirajganj	...	...	...	...	...	...	...
Rangpur	...	...	5 4 0	5 0 0	5 0 0	5 4 0	4 8 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	9 0 0	8 0 0	8 0 0	5 4 0	5 3 0	...
Chetla Hat	...	...	...	...	...	...	...
Burdwan	9 0 0 to 11 8 0	11 3 0	8 4 0	5 0 0	5 0 0	6 0 0	...
Kalna	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...
Midnapore	10 0 0 to 11 0 0	10 0 0 to 11 0 0	7 0 0	5 12 0	4 6 0	4 8 0	...
Chittagong	...	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...
Dacca	...	...	...	...	...	...	...
Narayanganj	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...
Pabna	...	...	...	...	...	...	...
Sirajganj	...	...	...	...	...	...	...
Rangpur	10 0 0	9 0 0	6 2 0	7 3 0	7 0 0	4 4 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of July 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 0 0	7 0 0	4 0 0	3 8 0	3 7 0	3 8 0	3 12 0
Obeta Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 2 0	7 8 0	3 12 0	3 8 0	3 14 0	3 14 0	4 4 0
Kalna ...	...	...	...	...	...	...	...
Kanighaj ...	...	...	...	...	...	...	...
Midnapore ...	7 10 0 to 8 0 0	7 10 0 to 8 0 0	4 2 0 to 4 5 0	3 14 0	4 4 0	4 8 0	...
Chittagong ...	7 8 0	7 8 0	4 8 0	3 8 0	4 4 0	5 0 0	...
Chandpur ...	...	...	...	...	...	...	...
Decca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	9 0 0	5 4 0	7 0 0	7 0 0	6 8 0	...

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	11 0 0	11 0 0	5 8 0	4 8 0	5 4 0	6 0 0	5 4 0
Obeta Hat ...	...	...	...	...	...	...	...
Burdwan ...	12 8 0	12 0 0	5 10 0	4 8 0	5 4 0	5 10 0	4 0 0
Kalna ...	...	...	...	...	...	...	...
Kanighaj ...	...	...	...	...	...	...	...
Midnapore ...	11 8 0 to 12 8 0	12 8 0	6 0 0 to 7 8 0	5 0 0 to 6 8 0	5 4 0 to 6 8 0	6 0 0 to 7 0 0	...
Chittagong ...	10 8 0	11 4 0	6 0 0	5 8 0	6 8 0	7 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Decca ...	11 8 0	11 8 0	6 0 0	6 0 0	7 0 0	8 4 0	7 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	10 0 0	10 0 0	4 0 0	6 0 0	7 4 0	...	...
Sirajganj ...	...	...	...	...	...	...	6 11 0
Rangpur ...	(a)	(a)	6 0 0	7 8 0	7 8 0	8 8 0	8 4 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of July 1919.**

Marts.	LINSEED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	59	60	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 8 0	12 8 0	5 3 0	11 8 0	11 8 0	6 6 0	7 12 0	7 12 0	6 0 0	25 0 0	25 0 0	40 0 0
Cuttack Hat	...	...	...	...	...	...	...	...	...	...	...	...
Bardwan	(a)...	(a)...	6 8 0	12 8 0	12 8 0	6 0 0	8 0 0	8 0 0	6 0 0	(a)...	(a)...	36 0 0
Kalga	...	...	...	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...	...	...	...
Midnapore	16 0 0	16 0 0	4 4 0	15 0 0	15 0 0	7 4 0	8 0 0	7 12 0	8 12 0	40 0 0	40 0 0	40 0 0
Chittagong	12 0 0	12 0 0	10 0 0	12 0 0	12 0 0	7 0 0	12 8 0	11 8 0	6 0 0	15 0 0	16 0 0	20 0 0
Bandpur	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	12 0 0	12 0 0	5 0 0	12 0 0	12 0 0	7 8 0	11 8 0	11 8 0	10 0 0	...	...	...
Baranagar	...	...	...	...	...	...	...	...	...	...	...	...
Dumraugh	...	...	...	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...	...	...	...
Pabna	(a)	(a)	...	12 5 0	12 11 0	7 0 0	10 0 0	9 0 0	7 4 0	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...	...	...	...
Rangpur	...	...	...	14 4 0	12 0 0	6 6 0	15 0 0	12 0 0	6 4 0	...	...	...

Marts.	JUTE.			GHEE.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 0 0	78 0 0	78 0 0	70 0 0	450 0 0	450 0 0	450 0 0
Cuttack Hat	...	...	...	...	...	...	...	...	...
Bardwan	(a)...	(a)...	5 10 0	76 0 0	75 0 0	60 0 0	(a)...	(a)...	40 0 0
Kalga	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...
Midnapore	7 0 0	7 0 0	5 0 0	80 0 0	80 0 0	60 0 0	425 0 0	325 0 0	200 0 0
Chittagong	...	...	...	...	...	...	...	...	...
Bandpur	12 8 0	10 0 0	6 8 0	...	...	...	...	...	...
Dacca	...	...	...	78 8 0	77 6 0	61 0 0	...	...	...
Baranagar	13 0 0	11 0 0	7 8 0	...	...	...	...	...	...
Dumraugh	14 0 0	16 0 0	8 0 0	...	...	...	...	...	...
Madaripur	10 0 0	19 0 0	8 0 0	...	...	...	...	...	...
Pabna	10 0 0	9 8 0	5 8 0	...	...	...	...	...	...
Raniganj	...	...	...	78 0 0	73 0 0	75 0 0	...	...	...
Rangpur	...	...	...	...	...	...	...	...	...

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of July 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 0 0	8 0 0	30 0 0	3 4 0	3 4 0	3 8 0	4 8 0(a)	4 2 0(a)	2 11 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	14 8 0	18 0 0	20 0 0 to 22 0 0	2 14 0	3 2 0	4 1 0	3 2 0(b)	2 7 0(b)	4 3 0(b)
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	3 0 0 to 14 0 0	3 0 0 to 14 0 0	3 0 0 to 23 0 0	3 9 0	3 9 0	4 3 0	4 0 0(b)	4 0 0(b)	3 10 0
Chittagong	20 0 0	24 0 0	38 0 0	3 8 0	3 4 0	3 11 0	3 0 0	3 8 0(c)	2 6 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	3 12 0	3 12 0	4 8 0	4 1 0(d)	4 1 0(d)	4 3 0
Narayanaganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	20 0 0 to 25 0 0	20 0 0 to 25 0 0	27 0 0	3 12 0	3 12 0	4 4 0	3 9 0	3 4 0(A)	3 4 0
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 8 0	4 8 0(A)	4 8 0(A)	4 4 0

(a) Monkey brand. | (b) Rising Sun. | (c) Elephant. | (d) Mosque mark. | (A) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGALESE).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	20 0 0	0 8 0	0 8 0	0 14 0	.....	.....	.....
Chella Hat	.....	.....	.....	.....	.....	.....	0 8 0	0 8 0	0 8 0
Burdwan	37 0 0	36 0 0	17 8 0 to 19 0 0	0 8 0	0 8 0	0 11 0	0 7 0	0 8 0	0 9 0
Kalna	.....	.....	.....	.....	.....	.....	0 8 0	0 9 0	0 8 0
Raniganj	.....	.....	.....	.....	.....	.....	0 1 10	0 1 10	0 2 0
Midnapore	38 0 0 to 39 0 0	37 0 0 to 38 0 0	23 8 0 to 24 0 0	0 7 0	0 7 0	0 7 0	.....	.....	.....
Chittagong	38 0 0	38 0 0	23 0 0	.....	.....	.....	.....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	48 0 0	37 0 0	23 8 0	.....	.....	.....	.....	.....	.....
Narayanaganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	36 0 0	36 0 0	20 0 0	.....	.....	.....	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	48 0 0	37 0 0	23 0 0	.....	.....	.....	.....	.....	.....

DACCA,  
The 10th August 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of July 1919.**

QUANTITY PER RUPEE IN SERIES OF EIGHTY TOLAS.

DIVISION.  
Number.

PURBESHA.

BURDWAN.

RAJSHAH.

DISTRICTS AND  
MAHLS.

COMMON RICE.

Average.

Cheapest.

KALAI DAL. (*Phaseolus  
radiatus*).

ARHAR (DAL) OR TURR.  
CADJAN PEA (*Cajanus  
indicus*).

SALT.

Present return.

Next preceding return.

Corresponding  
of last year.

Present return.

Next preceding return.

Corresponding  
of last year.

Present return.

Next preceding return.

Corresponding  
of last year.

Present return.

Next preceding return.

Corresponding  
of last year.

Present return.

Next preceding return.

Corresponding  
of last year.

34-PARGANAH.

1 Chota Hat ... ..

2 Magra Hat ... ..

3 Calcutta-Bellaghata

NADIA.

4 Goari ... ..

5 Banaghat ... ..

MURSHIDABAD.

6 Berhampur ... ..

7 Kandi ... ..

8 Jaagipur ... ..

JESSORE.

9 Sadar ... ..

10 Bangson ... ..

KHULNA.

11 Sadar ... ..

12 Bagerhat ... ..

BURDWAN.

13 Sadar ... ..

14 Kulpa ... ..

BIRBHUM.

15 Suri ... ..

16 Rampur Hat ... ..

BANKURA.

17 Sadar ... ..

18 Vishnupur ... ..

MIDNAPORE.

19 Sadar ... ..

20 Contal ... ..

HOOGHLY.

21 Sadar ... ..

22 Arambagh ... ..

HOWRAH.

23 Sadar ... ..

24 Uinbaria ... ..

RAJSHAH.

25 Rampur-Bodla ... ..

26 Nator ... ..

27 Dinajpur-Railway  
Bazar Hat

28 Jalpaiguri-Sadar ... ..

		S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
		4 8	5 0	5 10	5 5	5 5	10 10	4 0	4 0	5 5	4 0	4 0	7 0	10 10	10 10	9 2	
		5 10	5 3	11 6	5 12	5 6	12 4	(a)	(a)	3 0	3 5	3 5	7 9	11 5	11 5	10 3	
		5 3	5 3	8 6	5 0	5 0	10 0	4 4	4 4	6 7	3 3	3 3	7 0	10 0	10 0	10 10	
		5 4	5 7	10 3	5 13	5 15	12 4	3 5	3 5	4 9	3 3	3 5	5 0	11 0	10 11	10 10	
		5 2	5 2	10 0	5 10	5 0	10 3	4 0	4 0	5 3	4 0	4 0	5 0	10 5	10 5	10 5	
		4 12	5 2	11 3	5 0	5 5	11 12	3 4	3 4	5 0	4 0	4 0	5 0	13 0	11 0	11 0	
		5 0	5 12	14 0	5 7	5 0	15 0	5 4	5 0	5 0	4 4	4 4	5 0	11 0	11 0	11 0	
		4 3	5 0	12 0	4 12	5 4	12 3	3 5	3 5	5 0	4 0	4 0	5 0	12 0	12 0	10 0	
		5 4	5 4	13 3	5 0	5 4	14 3	3 4	4 0	5 3	3 4	3 12	5 3	11 4	11 4	9 4	
		5 5	5 5	12 5	5 2	5 2	15 0	2 11	2 11	4 9	3 3	3 3	5 5	11 4	11 4	9 2	
		5 10	5 3	14 0	5 0	5 12	15 0	4 0	3 5	5 3	3 4	3 12	5 3	10 0	9 3	9 0	
		5 3	5 3	12 0	5 0	5 0	14 3	5 0	5 0	5 0	4 14	4 14	5 3	10 3	10 3	9 0	
		5 0	5 4	11 0	5 4	5 5	12 0	3 3	3 3	5 3	3 0	3 3	5 0	13 0	12 5	9 0	
		5 2	5 2	10 3	5 4	5 4	10 12	3 7	3 7	5 10	3 5	3 7	5 5	13 5	13 5	12 12	
		5 0	5 0	12 3	5 4	5 11	12 3	4 0	3 5	5 0	3 4	2 15	5 12	10 0	10 11	10 3	
		4 12	4 12	12 0	5 0	5 0	12 3	3 3	3 3	5 4	3 0	3 0	7 0	11 0	11 0	12 0	
		5 0	5 5	11 4	5 5	5 5	12 0	4 0	2 12	7 3	3 4	3 12	5 3	11 0	11 0	10 0	
		5 3	5 3	12 0	5 10	5 10	12 3	4 4	4 3	7 0	3 3	3 3	5 0	10 0	10 0	5 0	
		5 3	5 3	14 1	5 13	5 3	14 3	3 4	3 4	5 4	3 4	3 4	5 4 5 0 5 0	10 0	10 0	9 0	
		5 3	5 3	13 3	5 12	5 12	15 0	3 0	3 0	7 0	3 0	3 0	7 0	5 0	9 0	5 0	
		4 12	5 0	10 0	5 4	5 3	11 0	4 0	3 0	5 3	4 0	3 12	5 3	11 0	10 0	9 0	
		5 0	5 0	12 13	5 2	5 3	13 5	3 4	3 4	5 11	3 0	3 0	5 11	10 10	10 10	9 0	
		5 0	5 0	11 0	5 10	5 12	11 3	4 0	3 10	5 12	3 3	3 3	5 3	11 0	11 0	9 0	
		5 4	5 4	10 0	5 12	5 12	11 0	3 3	3 3	5 0	3 0	3 3	5 3	11 3	11 3	9 3	
		4 10	5 0	10 3	4 12	5 2	12 0	3 5	3 5	5 0	3 5	3 5	5 12	5 12	5 0	5 12	
		4 3	4 14	11 4	4 12	5 4	15 0	4 0	4 0	5 3	4 0	5 0	7 14	5 0	5 0	5 0	
		5 2	4 13	12 0	5 5	5 5	13 3	3 14	4 0	5 3	3 3	3 10	5 3	5 3	10 3	5 0	
		5 3	5 4	9 3	5 0	5 0	12 0	4 0	4 0	7 0	4 0	4 0	5 0	5 0	5 0	5 0	

\* Karkatch.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of July 1919—conold.**

DIVISION.	Number.	DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL (Phaseolus radiatus).			ARHAR (DAL) OR TURH, CAJAN PEA (Cajanus indicus).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
RAJSHAH.	29	Bardar	S. CH.	P. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
			3 12	3 12	3 0	5 0	5 4	11 0	3 0	3 0	7 0	2 12	2 12	5 8	3 0	3 0	7 0
	30	Siliguri	4 0	4 0	3 0	5 0	5 0	10 0	3 0	3 0	7 0	3 8	3 8	8 0	3 0	3 0	3 0
	RANGPUR.																
	31	Bardar	3 5	4 0	10 0	4 0	4 3	11 0	3 12	4 0	8 0	(a)	(a)	7 0	3 0	3 0	3 0
	32	Nalbamari	5 0	5 7	11 0	(n)	(n)	11 8	3 4	3 4	3 0	3 0	3 0	8 0	3 0	3 0	3 0
	33	Bogra-Bardar	4 5	5 1	3 4	3 1	5 7	11 4	4 0	4 0	7 8	3 7	3 7	6 12	9 12	10 0	3 0
	PABNA.																
	34	Bardar	4 3	5 4	11 0	4 14	5 8	12 0	4 0	4 0	10 0	3 14	4 0	6 0	10 3	10 3	3 0
	35	Sirajganj	4 0	4 12	10 4	4 8	5 0	11 8	4 5	5 0	7 4	3 12	3 0	7 8	3 0	3 0	3 0
DACCA.	MALDA.																
	36	Bardar	4 3	5 3	12 0	5 0	5 4	12 0	4 5	4 5	7 8	3 0	3 4	3 8	10 3	10 3	3 3
	37	Balla-Newabganj	5 0	5 4	12 4	5 3	3 12	12 4	4 12	4 8	7 4	4 0	4 0	9 0	11 0	11 0	3 12
	DACCA.																
	38	Bardar	4 3	4 3	10 0	4 11	5 0	12 0	4 6	4 6	5 8	3 3	3 3	5 0	10 10	10 10	3 0
	39	Munshir Hat	4 12	5 4	11 0	4 12	5 4	11 0	(n)	(n)	(n)	(n)	3 4	...	9 0	9 0	3 0
	MYMENSINGH.																
	40	Nasrabad	4 3	4 4	11 0	5 0	5 0	11 0	4 0	4 0	8 0	4 0	4 0	8 0	3 0	3 0	3 0
	41	Natekhona	4 5	5 6	11 0	4 8	5 10	11 8	5 12	5 8	9 0	3 2	3 2	7 0	10 0	10 0	3 0
	FARIDPUR.																
CHITTAGONG.	42	Bardar	4 4	5 0	12 0	4 12	5 4	12 4	4 0	4 3	5 4	4 0	4 0	6 0	3 0	3 0	3 0
	43	Rajbari	4 3	5 5	12 0	5 1	5 10	12 11	4 6	5 5	6 0	3 11	4 0	6 14	3 9	3 9	3 0
	BARANGANJ.																
	44	Barisal	4 12	5 0	11 4	5 6	5 4	12 0	5 10	5 8	3 0	3 4	3 4	6 8	9 4	10 0	3 3
	45	Phirojpur	5 0	5 0	11 4	5 4	5 4	11 4	4 3	4 3	7 0	(a)	(a)	5 0	3 0	3 0	3 0
	TIPPERA.																
	46	Comilla	4 0	4 3	9 11	4 1	4 3	10 5	5 0	5 0	5 5	3 0	3 12	6 6	10 0	10 0	3 3
	47	Ohandpur	4 3	4 10	10 0	3 0	3 6	12 0	4 4	4 3	5 12	3 14	3 14	7 10	10 4	10 4	3 1
	MOAKHALI.																
	48	Kalitari Hat	4 3	4 11	11 3	4 12	4 14	12 4	4 4	4 4	9 0	4 0	4 0	6 2	9 0	9 0	9 0
CHITTAGONG.	49	Peal Hat	4 3	4 3	12 14	5 3	4 14	12 3	5 9	5 3	8 0	(n)	(n)	...	10 11	10 11	3 9
	CHITTAGONG.																
	50	Bardar	3 8	3 3	11 0	5 3	5 3	12 3	4 0	4 4	7 0	3 12	4 0	6 3	11 0	11 0	10 0
CHITTAGONG.	51	Cor's Bazar	5 0	5 3	12 3	(n)	(n)	12 3	4 0	4 0	4 3	3 4	3 4	4 3	9 0	3 0	3 3
	52	Chittagong Hill Tracts—Rangamati.	4 0	5 0	8 0	5 0	5 3	10 0	4 0	4 0	4 0	3 3	3 3	4 0	3 0	3 0	3 0

\* Karkatch.

† Revised

(a) Not in stock.

(n) Not reported.

DACCA,  
The 10th August 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 7th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS--		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	1st Aug. 1919...	6 A.M. ...	19-27'	101-83'	121-10'	...	0-40'	124-50'	113-30'
	Rajnabahal ...	1st "	6 "	22-45'	56-319'	78-769'	...	0-45'	82-11'	73-36'
	Goalundo ...	1st "	8 hours ...	23-20'	...	...	0-10'	...	23-20'	23-30'
Brahmaputra	Gauhati ...	1st "	8 A.M. ...	21-30'	148-76'	170-08'	...	0-70'	175-96'	173-56'
	Serajganj ...	1st "	12 hours ...	39-30'	...	...	Steady	...	...	...
	Dibrugarh ...	1st "	8 A.M. ...	14-90'	...	...	...	0-10'	...	...
Meghna	Bhairab Bazar ...	1st "	6 hours ...	17-33'	1-61'	18-94'	...	Steady	...	...
	Chandpur ...	1st "	9-30 "	13-50'	1-61'	15-11'	...	Steady	...	...
	Fenchuganj ...	1st "	7 A.M. ...	24-00'	...	...	...	1-20'	...	...
Dhaleswari	Sabhar ...	1st "	7 "	28-90'	-8-62'	20-28'	...	0-10'	...	...
Bhagirathi	Swarupganj ...	1st "	6 "	23-29'	1-509'	24-799'	...	0-52'	24-93'	11-67'
Damodar	Edilpur ...	1st "	6 "	7-30'	92-58'	100-08'	...	0-17'	...	...
Lakhya	Narayanganj ...	1st "	...	23-04'	-5-59'	17-45'	0-08'	...	...	...
Madaripur Bil Route	Takerhat ...	1st "	6 A.M. ...	13-20'	1-0-599'	12-601'	0-20'	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 7th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
(Gauges	Monghyr ...	2nd August 1919	18.57'	101.83'	120.40'	...	...	124.70'	113.10'	
	... Rajmahal ...	2nd "	22.00'	56.319'	78.319'	...	...	82.46'	73.21'	
	... Goalundo ...	2nd "	23.10'	...	...	...	...	23.40'	22.00'	
Brahmaputra	Ganhati ...	2nd "	20.60'	148.76'	169.36'	...	...	176.26'	173.56'	
	... Serajganj ...	2nd "	38.50'	...	...	...	...	0.80'	...	
	... Dibrugarh ...	2nd "	14.80'	...	...	...	...	0.10'	...	
Meghna	Bhairab Bazar ...	2nd "	17.25'	1.61'	18.86'	...	...	0.08'	...	
	... Chandpur ...	2nd "	13.25'	1.61'	14.86'	...	...	0.25'	...	
	... Fenchuganj ...	2nd "	24.60'	...	...	0.60'	...	...	...	
Dhaleswari	... Sabhar ...	2nd "	28.80'	-8.62'	20.18'	...	...	0.10'	...	
Bhagirathi	... Swarupganj ...	2nd "	22.70'	1.509'	24.209'	...	...	0.59'	14.22'	
Damodar	... Edilpur ...	2nd "	8.08'	92.55'	100.66'	0.58'	...	...	...	
Lakhya	... Narayanganj ...	2nd "	23.04'	-5.59'	17.45'	Steady		...	...	
Madaripur Bil Route	... Takerhat ...	2nd "	13.60'	-0.599'	13.001'	0.40'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 7th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	3rd Aug. 1919	18.27'	101.83'	120.10'	...	0.30'	125.30'	112.70'	
	... { Rajmahal ...	3rd " "	21.45'	56.319'	77.769'	...	0.55'	82.51'	73.01'	
	... { Goalundo ...	3rd " "	22.50'	...	...	...	0.60'	23.60'	21.80'	
Brahmaputra	Gauhati ...	3rd " "	19.80'	148.76'	168.56'	...	0.80'	176.06'	173.26'	
	... { Serajganj ...	3rd " "	38.20'	...	...	...	0.30'	...	...	
	... { Dibrugarh ...	3rd " "	14.50'	...	...	...	0.30'	...	...	
Meghna	Bhairab Bazar ...	3rd " "	17.25'	1.61'	18.86'	Steady		...	...	
	... { Chandpur ...	3rd " "	12.25'	1.61'	13.86'	...	1.00'	...	...	
	... { Fenchuganj ...	3rd " "	24.20'	...	...	...	0.40'	...	...	
Dhaleswari	... Sabhar ...	3rd " "	28.70'	-8.62'	20.08'	...	0.10'	...	...	
Bhagirathi	... Swarupganj ...	3rd " "	22.02'	1.509'	23.529'	...	0.68'	27.53'	13.84'	
Damodar	... Bilpur ...	3rd " "	8.25'	92.58'	100.83'	0.17'	...	...	...	
Lakhya	... Narayanganj ...	3rd " "	22.42'	-5.59'	16.83'	...	0.62'	...	...	
Madaripur Bil Route	... Takerhat ...	3rd " "	13.50'	-0.599'	12.901'	...	0.10'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 7th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Idm.	Fall.	1917.	1918.	
Ganges	4th Aug. 1919	6 A.M. ...	18.17'	101.83'	120.00'	...	0.10'	126.10'	113.00'	
	4th "	6 "	21.20'	56.319'	77.519'	...	0.25'	82.96'	72.71'	
	4th "	8 hours ...	22.00'	...	...	...	0.30'	23.70'	21.40'	
Brahmaputra	4th "	8 A.M. ...	19.00'	148.76'	167.76'	...	0.80'	176.28'	173.46'	
	4th "	12 hours ...	37.60'	...	...	...	0.60'	...	...	
	4th "	8 A.M. ...	14.50'	...	...	Steady		...	...	
Meghna	4th "	6 hours ...	17.08'	1.61'	18.69'	...	0.17'	...	...	
	4th "	11 "	11.50'	1.61'	13.11'	...	0.75'	...	...	
	4th "	7 A.M. ...	23.90'	...	...	...	0.30'	...	...	
Dhaleswari	4th "	7 "	28.40'	-8.62'	19.78'	...	0.30'	...	...	
	4th "	6 "	21.20'	1.509'	22.709'	...	0.82'	28.28'	13.57'	
Bagirathi	4th "	6 "	12.00'	92.58'	104.58'	3.75'		...	...	
Damodar	4th "	6 "	22.04'	-5.59'	16.45'	...	0.38'	...	...	
Lekhya	4th "	6 A.M. ...	13.30'	-0.599'	12.701'	...	0.20'	...	...	







Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 7th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Res.	Fall.	1917.	1918.	
Ganges	...	...	...	...	...	...	...	...	...	...
	{ Monghyr ...	6th Aug. 1919	6 A.M.	18.67'	101.83'	120.50'	0.40'	...	113.90'	...
	{ Rajmahal ...	6th " "	6 "	21.20'	56.319'	77.519'	0.05'	...	72.96'	...
Brahmaputra	{ Goalundo ...	6th " "	8 hours	21.10'	...	...	...	0.40'	21.30'	...
	{ Gauhati ...	6th " "	8 A.M.	18.00'	148.76'	166.76'	...	0.30'	173.26'	...
	{ Seraiganj ...	6th " "	12 hours	36.70'	...	...	...	0.50'	...	...
	{ Dibrugarh ...	6th " "	8 A.M.	15.00'	...	...	0.30'	...	...	...
Meghna	{ Bhairab Bazar ...	6th " "	6 hours	16.50'	1.61'	18.11'	...	0.25'	...	...
	{ Chandpur ...	6th " "	13 "	11.50'	1.61'	13.11'	0.58'	...	...	...
	{ Fenchuganj ...	6th " "	7 A.M.	23.40'	...	...	...	0.15'	...	...
Dhaleswari	... Sabhar ...	6th " "	7 "	27.70'	- 8.62'	19.08'	...	0.40'	...	...
Rhagirathi	... Swarupganj ..	6th " "	6 "	19.87'	1.509'	21.379'	...	0.61'	13.42'	...
Damodar	... Edilpur ...	6th " "	6 "	9.00'	92.58'	101.58'	...	1.08'	...	...
Lakhya	... Narayanganj	6th " "	...	21.42'	- 5.59'	15.83'	0.05'	...	...	...
Madaripur Bil Route	... Takerhat ...	6th " "	6 A.M.	12.80'	- 0.599'	12.201'	...	0.30'	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 7th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	7th Aug. 1919	6 A.M. ...	18.97'	101.83'	120.80'	0.30'	...	127.30'	115.00'	
	7th "	6 " ...	21.25'	56.319'	77.569'	0.05'	...	84.71'	73.61'	
	7th "	8 hours ...	21.40'	...	...	0.30'	...	23.70'	21.30'	
Brahmaputra	7th "	8 A.M. ...	17.80'	148.76'	166.56'	...	0.20'	175.86'	173.56'	
	7th "	12 hours ...	36.40'	..	...	...	0.30'	...	...	
	7th "	8 A.M. ...	14.80'	...	...	...	0.20'	...	...	
Meghna	7th "	6 hours	16.33'	1.61'	17.94'	...	0.17'	...	...	
	7th "	14 " ...	11.58'	1.61'	13.19'	0.08'	...	...	...	
	7th "	7 A.M. ...	23.30'	...	...	0.10'	...	...	...	
Dhaleswari	7th "	7 " ...	27.20'	- 8.62'	18.58'	...	0.50'	...	...	
	7th "	6 " ...	19.51'	1.509'	21.019'	...	0.36'	28.93'	13.74'	
Damodar	7th "	6 " ...	9.75'	92.58'	102.33'	0.75'	...	...	...	
	7th "	...	21.42'	- 5.59'	15.83'	Steady	Steady	...	...	
Madaripur Bil Route	7th "	6 A.M. ...	12.80'	- 0.599'	12.201'	Steady	Steady	...	...	



## IRRIGATION DEPARTMENT, BENGAL

## IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1919-20.

Area leased for irrigation up to end of June 1919.

Circ.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.						RAINFALL, 1919-20.		RAINFALL, 1918-19.	
								Long-term leases.	SEASON LEASES.				Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.
									Rail.	Bugravans.	Hot-weather.	Total.					
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.
SOUTH-WESTERN	Midnapore	Midnapore	...	1,411	306	297	9,779	23,263	62,506	4,411	...	...	4,411	66,917	22-43	18-96	23-70
		Panchkura	...	522	3	2	...	...	6,715	...	...	...	...	6,715	21-88	8-19	22-29
	Howrah	Tidal Reaches, Ranges I and II.	...	...	...	...	...	...	...	...	...	...	...	...	22-76	9-26	28-55
		Total Midnapore Canal	...	...	...	...	9,779	23,263	69,221	4,411	...	...	4,411	73,632	...	...	...
SOUTH-WESTERN	Total of the corresponding period of last year.		...	...	...	...	...	...	70,916	212	...	...	212	71,128	...	...	...
	Burdwan and Hooghly	Eden canal	...	1,000	53	1	44	12	13,987	...	30	14	44	14,031	9-32	18-14	27-91
		Total of the corresponding period of last year.	...	...	...	...	...	...	15,196	...	...	12	12	15,208	...	...	...
	GRAND TOTAL		...	...	...	...	9,823	23,275	83,208	4,411	30	14	4,455	87,663	...	...	...
		GRAND TOTAL OF THE CORRESPONDING PERIOD OF LAST YEAR.	...	...	...	...	...	...	86,112	212	...	12	224	86,336	...	...	...

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.CALCUTTA.  
The 13th August 1919.





# The Calcutta Gazette

WEDNESDAY, AUGUST 20, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING THE 9TH AUGUST 1919.

THE rainfall during the week was general and sufficient. Transplantation on high land has been nearly completed. The distress is decreasing owing to improvement of agricultural prospects. Fifty-four relief works were open during the week and the number of persons relieved on them was 4,001. The total number of persons on gratuitous relief was 19,505, viz., 14,357 on cash doles in 128 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The grand total of persons relieved was 23,506. The number of persons relieved on private works was 875. The charitable societies also relieved 765 persons on weekly rice doles and 1,150 on doles of cooked food. Crime against property continues to be high. The physical condition of persons on relief works and the public health was generally good. Sporadic cases of cholera and malaria are reported. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varied from 5½ to 5¾ seers per rupee. Burma rice is being sold.

M. C. McALPIN,

Secy. to the Govt. of Bengal.

DACCA, the 14th August 1919.



**CONSTITUTION OF A PERMANENT COMMITTEE UNDER  
RULE 3 OF THE RULES ISSUED UNDER THE MUHAM-  
MADAN MARRIAGE REGISTRATION ACT, I OF 1876.**

**GOVERNMENT OF BENGAL.**

**REVENUE DEPARTMENT.**

**Registration Branch.**

DACCA, THE 11TH AUGUST 1919.

**RESOLUTION—No. 1072T. R.**

**READ—**

Resolution No. 1650T. R., dated the 21st October 1915, sanctioning the constitution of a permanent committee for the supervision of Muhammadan Registrars and Kazis in the Bengal Presidency.

**Read also—**

Rule 3 of the Rules under the Bengal Muhammadan Marriages and Divorces Registration Act, I of 1876, published with Government notification No. 4000-Regn., dated the 30th April 1918.

As the term of the permanent committee appointed under the Government Resolution quoted in the preamble has expired, the Governor in Council directs the constitution of a new permanent committee for the Bengal Presidency, which will be composed of the gentlemen named below :—

- (1) Inspector-General of Registration, *President (ex-officio)*.
- (2) Mirza Saiyid Muhammad Kazem Shiraji.
- (3) Shamsul Ulama Hedayet Hossain.
- (4) Mr. S. Mahboob Ali.
- (5) The Hon'ble Maulvi A. K. Fazlul Haq.
- (6) The Hon'ble Dr. A. Suhrawardy.
- (7) Nawab A. F. M. Abdur Rahman, Khan Bahadur.

**ORDER—**Ordered that this Resolution be published in the *Calcutta Gazette*.

Ordered also that copies of the Resolution be forwarded to the Inspector General of Registration and to all District Registrars for information.

By order of the Governor in Council,

M. C. McALPIN,

*Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE ANNUAL REPORTS OF THE VETERINARY COLLEGE AND OF THE CIVIL VETERINARY DEPARTMENT, BENGAL, FOR THE YEAR 1918-19.**

**GOVERNMENT OF BENGAL.**

**REVENUE DEPARTMENT.**

**Agriculture Branch.**

RAMNA (Dacca), THE 16TH AUGUST 1919.

**RESOLUTION—No. 1133T.R.**

READ—

The Annual Reports of the Veterinary College and of the Civil Veterinary Department, Bengal, for the year 1918-19.

COLONEL A. SMITH, Principal, Bengal Veterinary College, continued to hold charge of the College as well as of the office of Superintendent, Civil Veterinary Department, throughout the year, Mr. P. J. Kerr and Mr. A. D. MacGregor being still absent on military duty. As in the previous year, all touring and inspection work of the department was performed by Babu Sarat Chandra Pal, Deputy Superintendent, who was on tour for 73 days, and inspected most of the important hospitals and dispensaries of the province. One veterinary assistant of the department returned from field service at the conclusion of the term of his agreement for two years, while seven others were on military duty.

2. The number of students at the Bengal Veterinary College at the end of the session was 165, of which number 63 belonged to Bengal, while most of the others came from Bihar and Assam. There has been a steady increase in the number of students, the figures for the previous three years being 135, 148 and 157; of these numbers 51, 54 and 55 respectively belonged to Bengal. Thirty-three students graduated from the College at the close of the session. Nine graduates belonged to Bengal and have subsequently been employed as veterinary assistants; but there is still a demand for qualified assistants. To improve their prospects their pay has been raised from Rs. 30— $\frac{10}{6}$ —70 per mensem to Rs. 50— $\frac{10}{5}$ —100 per mensem. The Governor in Council trusts that the improved prospects will attract a large number and a better class of students to the Bengal Veterinary College and thereby improve the efficiency of the department.

3. The report of the Civil Veterinary Department shows a considerable decrease in the mortality of animals from contagious diseases during the year, the total number of deaths reported being 15,569 as against 26,486 in the previous year. The most striking decrease was under the head rinderpest, the number of deaths being 10,772 as compared with 21,126 in the previous year. The decrease is reported to be due to the proper organisation of inoculation campaigns by the Veterinary Department in the affected localities. The death-rate from anthrax was, however, heavier this year than last year, owing to a particularly severe outbreak in the Sundarbans of the 24-Parganas. It is reported that, owing to the nature of this malady, its sudden onset and rapidly fatal termination, only in a few cases were veterinary assistants able to reach the seat of trouble in time to be of any assistance.

There were virulent outbreaks of rinderpest during the year all over Calcutta and its suburbs. Prompt measures were taken in each outbreak to prevent its spread and inoculation was performed in 4,984 cases.

4. During the year under report the itinerant veterinary assistants visited 13,462 villages and treated 58,025 animals, compared with 11,520 villages and 67,333 animals in the previous year.



5. In Calcutta and its suburbs all the stables were regularly inspected. Glanders and farcy were detected in 13 and surra in four stables, against two and three respectively in the previous year. In the mufassal 17 deaths from glanders were reported as against 27 in the previous year. The mortality was the highest in the district of Bakarganj, where 13 cases occurred.

6. The number of stud bulls kept by Government and local bodies increased from 68 in the previous year to 104 in the year under review. Only 44 of these are the property of local bodies.

7. Four new dispensaries were recognised at Siliguri, Bankura, Satkhira and Chuadanga during the year, thus bringing the total number of such institutions to 31 as against 27 in the preceding year. The number of patients treated during the year was 43,312 as against 34,889 in the previous year. The Superintendent reports that the increase in the number of cases shows that the usefulness of these institutions is being fully appreciated by the public. The Governor in Council notices with satisfaction that arrangements are being made by the District Boards of Noakhali, Tippera and Bakarganj for the construction of veterinary dispensaries with quarters for veterinary assistants at Feni, Brahmanbaria and Patuakhali, respectively. No provision has, however, yet been made by the District Board of Murshidabad, Rajshahi, Jessore or Midnapore for such buildings. His Excellency in Council trusts that this omission will soon be remedied and that efforts will also be made by District Boards generally to bring the numbers of veterinary assistants in their district up to the sanctioned strength as soon as they can be supplied from the College by the Principal.

8. Though the report is evidence of the fact that much good work is being done by the department, the Governor in Council considers that, in order to popularise the work of the veterinary assistants and to extend their sphere of utility, each District Board should appoint a sub-committee consisting of two or three members to deal with the veterinary work of the Board.

9. The work of the Deputy Superintendent, Civil Veterinary Department, inspectors and of the staff of the Bengal Veterinary College was satisfactory. His Excellency in Council has much pleasure in acknowledging the valuable services of Colonel Smith and his zeal for the welfare of both the college and the department.

By order of the Governor in Council,

M. C. McALPIN,  
Secy. to the Govt. of Bengal.



**REPORTS ON THE WORKING OF THE SHIPPING OFFICES  
IN BENGAL FOR THE YEAR 1918-19.**

**NOTIFICATION:**

*The 13th August 1919.*

*No. 102 Marine.*—The following annual reports on the working of the shipping offices in Bengal for the year 1918-19 are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

No. S.-1926, dated Calcutta, the 23rd July 1919.

From—The Shipping Master, Calcutta.

To—The Secretary to the Govt. of Bengal, Marine Department.

I HAVE the honour to submit herewith for the information of Government the Annual Report of the Calcutta Shipping Office for the year 1918-19.

A comparative statement of the number of seamen shipped and discharged under European and Indian articles for the years 1917-18 and 1918-19 is given below, from which it will be observed that the number of seamen shipped and discharged under European articles shows a little decrease, but a considerable increase is shown under the Indian articles. Further details as per Appendix I.

*Shipped.*

Articles.		1917-18.	1918-19.	Increase.	Decrease.
European	...	954	936	...	18
Indian	...	34,021	35,403	1,382	...
Total	...	34,975	36,339	1,362	18

*Discharged.*

Articles.		1917-18.	1918-19.	Increase.	Decrease.
European	...	1,499	1,746	247	...
Indian	...	23,730	25,439	1,709	...
Total	...	25,229	27,185	1,956	...

There were 66 Eurasians shipped on European and 193 on Indian articles during the year, as compared with 40 and 277 in the previous year.

Number of Chinese seamen shipped and discharged under Chinese articles during the present year is given below:—

Year.	Shipped.	Discharged.
1918-19	775	103

The figures below represent the number of seamen of various nationalities shipped and discharged at the consulates, details of which are shown in Appendix II.

These figures are not included in Appendix I.

Nationalities.	Shipped.	Discharged.	Nationalities.	Shipped.	Discharged.
Americans	4	...	Japanese	2	...
British	3	...	Norwegian	14	13
Chinese	51	18	Portuguese	1	...
Danish	9	5	Russians	3	1
Arabs	1	4	Spaniards	2	...
Egyptians	1	...	Swedish	30	19
Greeks	2	...			
Indians	1	9	Total	124	69



The number of seamen on European articles who deserted their vessels and failed to join was 11 and the numbers on Indian articles 393. The majority were replaced by substitutes.

**Repatriation of distressed seamen.**—The total number of seamen repatriated during the year was 84 of whom 54 were repatriated owing to illness, 14 on termination of agreement, one on account of injury, 10 under mutual consent, and 5 on account of venereal disease.

**Relief to seamen.**—The work-house afforded relief to 6 seamen at a cost of Rs. 253-8; of these one was sent to Lunatic Asylum at Ranchi, 3 absconded, one obtained employment, and one is still in that institution.

Twenty-five destitute seamen were admitted into the Sailors' Home during the year, and a loss of Rs. 253 was sustained owing to seamen being unable to pay their board: 15 seamen were relieved in the Alms House by the District Charitable Society at a cost of Rs. 1,486-8. Rupees 1,61,539 was paid to the crews of enemy vessels on account of balance of wages during the year, of which Rs. 29,742 was debited against the Board of Trade.

**Compensation to Seamen of Sunken Vessels.**—Rupees 1,860 was paid by the Government of Bengal for loss of effects to the surviving members of the crews of vessels sunk by enemy action and Rs. 5,124 by the Indian Relief Fund through this office as further compensation to the crews.

**Relief granted to the dependants of interned seamen.**—The amount of relief given to the dependants of seamen interned in Germany by the Indian Relief Fund through this office amounted to Rs. 4,410.

**Administration of Trust Fund.**—Appendix III shows the transactions during the year of funds held in trust under different heads.

Stamped papers to the value of Rs. 97-6 were used on account of security in disposing of the estates of deceased Indian seamen.

The balance of accumulated funds at the commencement of the year was Rs. 52,024 and the receipts during the year Rs. 1,68,424.

The payment from the funds amounted to Rs. 1,12,080, and Rs. 3,298 lapsed to Government, leaving a balance of Rs. 1,05,070 in deposit at the close of the year.

**Transaction with Board of Trade.**—Rupees 1,11,873 represents the transactions with the Board of Trade. The sum of Rs. 29,742 paid on account balance of wages to seamen of enemy vessels and Rs. 43,835 paid to seamen under the Board of Trade scheme for loss of their effects through enemy action are included in the total transaction with the Board of Trade.

**European Seamen's Money Orders.**—A sum of £ 366 was remitted by seamen to their relatives in the United Kingdom, as compared with £ 56 of the previous year.

**Financial results.**—The figures below give the financial result of the office for the last five years:—

Year.	Receipts. Rs.	Disbursements. Rs.	Savings. Rs.
1914-15	1,04,854	61,599	43,345
1915-16	94,319	57,669	36,650
1916-17	94,074	69,238	24,736
1917-18	76,929	58,855	18,074
1918-19	86,356	60,250	26,106

A comparison in the savings of the present and the previous year shows an increase of Rs. 8,032 due to more fees and other receipts received during the year.

**Expenditure.**—Appendix IV details particulars of the receipts and expenditure of the year.

**Administrative changes.**—The following changes have taken place:—

Mr. C. S. Cameron has been acting as Assistant Shipping Master, Kidderpore, in place of Mr. C. H. Sharp who is still on leave and is in charge of the Discharge Certificate Department. The shipping and discharging work of the Branch Shipping Office has been done under the supervision of Mr. S. H. Reaks, M.B.E., who held the post of the Assistant Port Officer and Deputy Shipping Master throughout the year in addition to his own duties.

Captain D. F. Vines, O.B.E., R.I.M., was Shipping Master throughout the year under report.



## APPENDIX No. I.

Showing the number of seamen of all nationalities who were shipped and discharged under European and Indian articles of agreement during the year ending 31st March 1919.

Nationalities.	SHIPPED.			Total.	DISCHARGED.			Total.
	European Articles.	Head Office, Indian Articles.	Branch Office, Indian Articles.		European Articles.	Head Office, Indian Articles.	Branch Office, Indian Articles.	
British ...	276	407	15	698	311	389	...	700
French ...	...	...	...	...	...	...	...	...
Italians ...	...	...	...	...	1	...	...	1
Danish ...	2	...	...	2	2	...	...	2
Russians ...	11	...	...	11	9	...	...	9
Swedes ...	12	...	...	12	3	...	...	3
Germans ...	...	...	...	...	...	...	...	...
Austrians ...	...	...	...	...	...	...	...	...
Belgians ...	2	...	...	2	...	...	...	...
Greeks ...	2	...	...	2	2	...	...	2
Portuguese (Goanese) ...	1	430	193	624	1	425	33	459
Norwegians ...	6	...	...	6	8	...	...	8
Spaniards ...	3	...	...	3	1	...	...	1
Americans ...	8	...	...	8	9	...	...	9
Dutch ...	3	...	...	3	7	...	...	7
Australians ...	190	31	...	221	51	22	...	73
Malays ...	15	...	98	113	21	...	3	24
Turks ...	...	...	...	...	...	...	...	...
Chinese ...	292	988	93	1,373	1,216	363	19	1,598
Africans ...	...	...	...	...	4	...	4	8
Manillamen ...	1	...	...	1	...	...	...	...
Arabs ...	9	...	4	13	10	13	8	31
Maltese ...	...	...	...	...	1	...	...	1
West Indians ...	1	...	2	3	4	...	4	8
Eurasians ...	66	166	27	259	48	282	...	330
Indians ...	10	16,085	16,835	32,930	14	11,874	11,987	23,875
Cingalese ...	...	...	6	6	...	1	6	7
Mauritius ...	1	12	11	24	...	6	...	6
Japanese ...	24	...	...	24	22	...	...	22
Mexicans ...	1	...	...	1	1	...	...	1
Total ...	936	18,153	17,284	36,339	1,746	13,375	12,064	27,185



## APPENDIX No. II.

Showing the number of Seamen of all nationalities Shipped and discharged through different Consuls during the year 1918-19.

## SHIPPED.

Different Consuls.	America.	British.	Swedish.	Greek.	Japanese.	Portuguese.	Norwegian.	Danish.	Spanish.	Russian.	Chinese.	Portuguese.	Arab.	Indian.	Total number of seamen shipped.
Greece ...	...	...	...	2	2	1	...	...	...	...	...	...	...	...	5
U. S. of America ...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Japan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Belgian ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Netherlands ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sweden ...	...	2	15	...	...	...	...	...	...	...	...	...	1	...	18
Norway ...	...	1	18	...	...	...	14	4	2	1	47	...	...	...	82
France ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Italy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Spain ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Denmark ...	...	...	2	...	...	...	...	5	...	2	4	1	...	...	14
Portugal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	4	3	30	2	2	1	14	9	2	3	51	1	1	1	124

## DISCHARGED.

Different Consuls.	America.	British.	Swedish.	Norwegian.	Danish.	Spanish.	Russian.	Chinese.	Arab.	Indian.	Total number of seamen discharged.
Greece ...	...	...	...	...	...	...	...	...	...	...	4
U. S. of America ...	...	...	...	...	...	...	...	...	...	9	9
Japan ...	...	...	...	...	...	...	...	...	...	...	...
Belgian ...	...	...	...	...	...	...	...	...	...	...	...
Netherlands ...	...	...	...	...	...	...	...	...	...	...	...
Sweden ...	...	...	11	...	...	...	...	...	...	...	11
Norway ...	...	...	6	13	2	...	...	18	...	...	39
France ...	...	...	...	...	...	...	...	...	...	...	...
Italy ...	...	...	...	...	...	...	...	...	...	...	...
Spain ...	...	...	...	...	...	...	...	...	...	...	...
Denmark ...	...	...	2	...	3	...	1	...	...	...	6
Portugal ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	19	13	5	...	1	18	4	9	69

## APPENDIX No. III.

Balance sheet of funds held in trust for the year ending 31st March 1919.

Item of Receipts.	Balance, 1917-18.	Receipts, 1918-19.	Total	Paid, 1918-19.	Lapsed to Government.	Balance, 1918-19.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Deposit money of British seamen	1,683	46,480	48,163	41,455	...	6,658
Ditto Indian "	21,224	26,948	48,172	17,645	1,642	28,885
Estate of deceased "	29,117	95,046	1,24,163	52,980	1,656	69,527
Total ...	52,024	1,68,424	2,20,448	1,12,080	3,298	1,05,070
Account with Board of Trade ...	...	1,11,873	1,11,873	1,11,873	...	...



## APPENDIX No. IV.

Showing the financial results for the year ending 31st March 1919.

Heads of receipts.	1917-18.	1918-19.	Increase.	Decrease.	Heads of expenditure.	1917-18.	1918-19.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
Shipping fees ...	23,054	26,302	2,238	...	Establishment ...	28,885	40,380	1,735	...
Discharging fees ...	23,274	26,972	3,698	...	Overtime ...	9,440	11,536	2,096	...
Addition fees ...	237	118	...	119	Cost of constable ...	1,510	1,510	...	...
Overtime fees ...	9,440	11,536	2,096	...	Contingencies ...	1,005	817	...	188
Fines and forfeitures ...	5,135	5,700	565	...	Subscription to newspapers ...	191	191	...	2
Sale of forms ...	1,340	1,562	222	...	Furniture and fittings ...	120	304	184	...
Sale of Cookery certificate and discharge certificate ...	4,354	5,067	703	...	Telephones ...	712	737	...	5
Sale of old stores ...	85	109	24	...	Rates and taxes ...	954	964	...	...
					Cost of forms and stationery ...	4,304	1,274	...	3,030
					Cost of tin cases ...	981	1,155	174	...
					Pay of sweepers ...	810	933	123	...
					Grain compensation allowance ...	140	109	...	31
					Postage stamps ...	...	250	...	...
Total ...	76,929	86,256	9,326	119	Total ...	55,885	60,250	4,365	3,257

No. 418., dated Chittagong, the 21st May 1919.

From—The Shipping Master, Chittagong.

To—The Commissioner of the Chittagong Division.

I HAVE the honour to submit herewith the Annual Administration Report of the Shipping Office for the financial year 1918-19, together with Appendices I to III.

2. **Financial results.**—The amount received during the year was Rs. 1,957 and that expended was Rs. 580. The accompanying statement I shows the particulars of the receipts and expenditure of the past two years with explanation of the principal fluctuations.

3. **Trust Funds.**—The opening balance of the year under review was Rs. 1,058 and the receipts Rs. 1,23,835 or Rs. 30,541 in excess of that of the previous year; the payments were Rs. 1,22,589, leaving a balance of Rs. 2,304 at the close of the year as shewn in statement II annexed.

4. **Seamen shipped and discharged.**—The number of seamen of all nationalities shipped and discharged during the year under report was 174 and 694, respectively, against 169 and 579 in the previous year as shewn in the statement III annexed.

5. **Inspection of vessels.**—The number of ships which arrived at this port during the year 1918-19 was 28 (excluding regular coasting steamers) against 22 in the previous year; of these 4 ships were manned solely by Europeans, 1 ship was manned by Japanese, 14 ships were manned by mixed crews of Europeans, Asiatics and Indians, and 9 ships were manned exclusively by natives of India. All the foreign-going ships were inspected by the Port Health Officer.

6. **Condition of seamen.**—There were 16 seamen admitted into the Chittagong General Hospital against 5 during the preceding year. Of the total admission 12 were discharged as cured, 2 discharged otherwise, one died and one is still in hospital. There were no cases of scurvy or death resulting from bad or insufficient food on board ships during the year under report.

7. **Seamen's Money Order.**—No remittances of wages were made to the United Kingdom by means of Seamen's Money Order.

8. **Deserters.**—Twelve lascars deserted during the year against 3 in the previous year. There was no deserter among European seamen.

9. **Deaths.**—Three deaths occurred among the sea-faring community at this port during the year under report. One Mr. Theodore Eriesson, a Swedish subject, carpenter on board the SS. *War Anemone*, whilst returning to the ship at night, accidentally fell into the river; his body was recovered three days after. One Din Mahamed, Indian fireman, on board the SS. *Marwari*, jumped overboard at sea and was never seen again.

10. **Offences.**—No cases were tried by the Magistrate under the Indian Merchant Shipping Act, I of 1859, during the year under report.



**STATEMENT I.**

Showing the financial results of the working of the Shipping Office Chittagong for the year ending 31st March 1919.

Heads of receipts.	1918-19.	1917-18.	Increase.	Decrease.	Heads of expenditure.	1918-19.	1917-18.	Increase.	Decrease.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Shipping fees ...	116	88	28	...	Pay, acting and leave allowance of Shipping Clerk ...	283	510	...	127
Discharging fees ...	600	600	110	...	Pay of a peon ...	94	95	...	1
Value of forms ...	11	10	1	...	Grain compensation allowance ...	3	6	...	3
Fines and forfeitures ...	1,154	19	1,135	...	War allowance ...	13	...	13	...
Overtime fees ...	16	...	16	...	Contingencies ...	71	66	5	...
					Overtime fees ...	16	...	16	...
<b>Total</b> ...	<b>1,957</b>	<b>605</b>	<b>1,352</b>	<b>...</b>	<b>Total</b> ...	<b>580</b>	<b>677</b>	<b>97</b>	<b>121</b>

\* The increase of discharging fees is due to the greater number of vessels having paid off.  
† The increase under this head is due to the balance of wages amounting to Rs. 1,045 of certain Indian seamen discharged from vessels having been forfeited to Government.  
‡ The decrease is due to the present Shipping Clerk having been paid at Rs. 20, i.e., the minimum pay of the post up to 8th October 1917.  
§ This amount was drawn by officers performing overtime work ad hoc.

**STATEMENT II.**

Receipts and disbursements on behalf of Seamen discharged from the Port of Chittagong.

Heads of receipts.	Balance at the opening of the year.	Receipts during the year.	Total.	Items of disbursements.	Amount.	Lapsed to Government.	Balance at the close of the year.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Opening balance ...	1,068	...	1,068	(1) Paid cash to British seamen ...	Nil	...	...
(A) Voluntary deposits on account of seamen discharged on mutual consent or on termination of agreement.	...	1,18,997	1,18,997	(2) Paid cash to Indian seamen ...	1,18,997	...	...
(B) Involuntary deposits on account of seamen discharged in jail or under medical certificate.	...	Nil	...	(3) Paid to relatives of the deceased seamen.	2,430	...	...
(C) Deposits on account of deceased seamen—	...	...	...	(4) Remitted to the Shipping Master, Calcutta, on account of deceased seamen.	980	...	2,304
(1) From Shipping Master, Bombay ...	1,068	...	...	(5) Remitted to the Magistrate of Nonkhail on account of deceased seamen.	117	...	...
(2) From Shipping Master, Calcutta ...	787	...	...	(6) Lapsed to Government on account of deceased seamen	...	106	...
(3) From masters of vessels ...	980	...	...				
(4) From Superintendent, Mercantile Marine, Rangoon ...	133	...	...				
<b>Total</b> ...	<b>4,828</b>	<b>...</b>	<b>4,828</b>	<b>Total</b> ...	<b>1,23,483</b>	<b>106</b>	<b>2,304</b>
<b>Total</b> ...	<b>1,068</b>	<b>1,33,825</b>	<b>1,34,893</b>				

**STATEMENT III.**

Number of Seamen of all nationalities shipped and discharged at the Port of Chittagong during the year 1918-19 as compared with the previous year.

Nationalities.	1918-19.		1917-18.		Grounds of discharge.
	Shipped.	Discharged.	Shipped.	Discharged.	
British ...	4	...	1	2	By mutual consent ... 105 On termination of agreement ... 585 Under medical certificate ... 4 <b>Total</b> ... <b>694</b>
Eurasians ...	...	...	...	1	
Indian Lawcers ...	170	584	168	574	
Gioanese ...	...	1	...	2	
West Indies ...	...	1	...	...	
Chinese ...	...	105	...	...	
Japanese ...	...	1	...	...	
Mauritius ...	...	1	...	...	
Ceylonese ...	...	1	...	...	
<b>Total</b> ...	<b>174</b>	<b>694</b>	<b>169</b>	<b>579</b>	



# MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR JULY 1919.

**I. Character of the Season.**—The rainfall throughout the province was in excess of the normal everywhere except in the districts of Murshidabad, Burdwan, Midnapore, Hooghly and Dinajpur; where the fall was slightly defective. The usual rainfall statement is appended.

**II. Progress of the Agricultural Operations.**—Transplantation of winter paddy was proceeding under generally favourable conditions, but the progress was retarded in some districts of North and West Bengal for want of sufficient rainfall. Reaping of autumn paddy and cutting, steeping and washing of jute continued.

**III. State of Standing Crops.**—The condition of autumn paddy, jute and other standing crops was fairly good on the whole.

**IV. Prospects and Probable Outturn.**—A fairly good outturn of autumn paddy is anticipated. The prospects of winter paddy were generally reported promising.

**V. Damage to Standing Crops.**—Slight damage to the jute crop by insect pests was reported from some districts, mostly in West Bengal. In the low-lying tracts of Pabna and Faridpur jute, autumn paddy and deep water aman paddy also suffered some damage by flood.

**VI. Condition of Agricultural Stock.**—The condition of agricultural stock was generally fair. Cattle-disease was found to exist in the districts of Nadia, Murshidabad, Khulna, Burdwan, Midnapore, Hooghly, Dinajpur, Jalpaiguri, Malda, Cooch-Bihar, Bakarganj and Tippera.

**VII. Failure of Pasturage and Fodder.**—The supply of fodder was sufficient throughout the province, except in the flooded tract in the district of Bogra.

**VIII. Prices of Food-grains.**—During the second fortnight of the month under review the price of common rice for the province rose in nineteen districts, fell in three and remained stationary in the rest. It varied from 4 seers per rupee at Rangpur to 6 seers at Jessore, Khulna and Jalpaiguri.

**IX.—Condition of Agricultural People.**—Distress continued to prevail in the Brahmanbaria subdivision of Tippera. Relief measures continued.

J. C. ROY,

for Director of Agriculture, Bengal.

Dacca, the 18th August 1919.

## Statement showing the normal and actual rainfall in each district during July 1919.

Division.	District.	Normal district rainfall for the month of July.	Actual district rainfall for the month of July 1919.	Variation from the normal.	Division.	District.	Normal district rainfall for the month of July.	Actual district rainfall for the month of July 1919.	Variation from the normal.
		Inches.	Inches.	Inches.			Inches.	Inches.	Inches.
Presidency	24-Parganas	13.20	14.52	+1.32	Rajshahi— contd.	Rangpur	14.53	18.12	+3.59
	Osaiutta	12.85	11.99	-0.86		Bogra	12.71	27.84	+14.97
	Nadia	10.17	13.09	+2.92		Pabna	11.10	14.82	+3.72
	Murshidabad	10.94	10.92	-0.02		Malda	11.74	21.22	+9.48
	Jessore	10.98	15.25	+4.27	Dacca	Dacca	12.96	16.87	+3.91
Burdwan	Khulna	15.04	20.38	+5.34		Mymensingh	16.37	21.26	+4.89
	Burdwan	11.39	10.71	-0.68		Faridpur	12.30	20.05	+7.75
	Birbhum	13.45	14.62	+1.17		Bakarganj	18.14	28.74	+10.60
	Bankura	11.92	13.16	+1.24	Chittagong...	Chittagong	26.90	26.28	-0.62
	Midnapore	12.47	10.23	-2.24		Tippera	13.71	16.43	+2.72
Rajshahi	Hooghly	12.06	11.64	-0.42		Naokhal	23.74	27.74	+4.00
	Howrah	12.92	14.05	+1.13		Chittagong Tracts.	20.95	22.14	+1.19
	Rajshahi	11.00	17.18	+6.18	Cooch Behar	Cooch Behar	24.08	24.99	+0.91
	Dinajpur	16.01	15.78	-0.23					
	Jalpaiguri	23.81	26.01	+2.20					
	Darjeeling	21.24	24.46	+3.22					



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 14th August 1919.

**Summary.**—Light to moderate rain fell throughout the province. Reaping of autumn paddy is in progress. Transplanting of winter paddy and cutting, steeping and washing of jute are proceeding but the operations are being retarded in the northern and eastern districts for want of sufficient rain. Slight damage to jute by insects is reported from some West Bengal districts. The prospects of standing crops are reported to be fairly good. The average price of common rice for the province has risen by about 0·61 per cent. as compared with that of previous week. The average number of persons engaged daily in test works in the Brahmanbaria subdivision of Tippera district was 302.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	5·69	5½	5½	Transplanting of <i>aman</i> paddy continues. Condition and prospects of jute are good. Damage by insects is reported from some places in Basirhat and Barasat subdivisions. The effects of weather are good. Harvesting of jute is fairly progressing in the Barasat and Basirhat subdivisions. Fodder and water are sufficient.
	Diamond Harbour.	5·27	5½	5½	
	Barrackpore	(n)	(n)	5	
	Barasat ...	3·72	5½	5½	
	Basirhat ...	4·69	5½	5½	
2	NADIA ...	1·62	5½	5½ <sup>c</sup>	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy and jute continues. Effects of weather are favourable. Some damage to jute has been done by insect-pests. Transplanting of <i>aman</i> paddy continues.
	Kushtia ...	0·63	5	5	
	Meherpur ...	2·90	5½	5½	
	Chuadanga ...	2·36	5	(n)	
	Ranaghat ...	1·62	5½	5½	
3	MURSHIDABAD	3·81	4½	4½	Weather cloudy with occasional rains. Prospects of standing crops are good. Transplanting and weeding of <i>aman</i> paddy continue. Condition and prospects of jute are fair. Effects of weather are favourable to its growth. Some damage by insect pests is reported in Sadar subdivision and it is apprehended by flood in Jangipur subdivision. Harvesting has commenced. Cattle-disease prevails in Mirzapur in Jangipur subdivision. Fodder is sufficient. No large import or export. Agricultural loans and gratuitous relief are being given for distress in some parts of the district.
	Lalbagh ...	3·45	5	5	
	Jangipur ...	3·29	4½	4½	
	Kandi ...	2·13	4½	5	
4	JESSORE ...	2·72	5	5	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy continue. Standing crops are doing well. Condition and prospects of jute are fair. Cutting and steeping continue. Fodder is sufficient.
	Jhenidah ...	1·99	5½	5½	
	Magura ...	1·03	5	5	
	Narail ...	4·41	5	5	
	Bangaon ...	2·87	5	6	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SERIES, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
5	KHULNA ...	Inches 2.42	4 <sup>9</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	Transplantation of <i>aman</i> paddy is going on. Some damage to paddy seedlings by heavy rain is reported. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Harvesting is going on. Fodder and water are sufficient.
	Satkhira ...	4.85	5 <sup>5</sup> / <sub>16</sub>	6	
	Bagerhat ...	4.60	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
6	BURDWAN ...	5.08	5	5	Weather hot and cloudy. Transplanting of <i>aman</i> paddy is progressing. <i>Aus</i> paddy and sugarcane are doing well. Harvesting of jute continues. Some damage to the crop has been done by insects in the Sadar subdivision. Cattle disease is reported from Galsi, Sahebganj and Katwa.
	Asansol ...	3.93	5	5	
	Katwa ...	3.40	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
	Kalna ...	2.00	5	4 <sup>1</sup> / <sub>2</sub>	
7	BIRBHUM ...	3.45	5	5 <sup>1</sup> / <sub>2</sub>	Transplantation continues. Prospects of standing crops are favourable. Fodder and water are sufficient.
	Rampurhat ...	3.40	4 <sup>1</sup> / <sub>2</sub>	5	
8	BANKURA ...	2.30	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	Transplantation of paddy has been nearly finished. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	2.19	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
9	MIDNAPORE	7.53	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	Transplantation of winter rice continues. Condition and prospects of jute, <i>bhadoi</i> paddy and other <i>bhadoi</i> crops are fair. Fodder and water are sufficient.
	Ghatal ...	5.84	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
	Tamluk ...	1.22	6	6	
	Contai ...	5.16	6 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	
10	HOOGHLY ...	2.72	4 <sup>9</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	Effects of weather on the growth of the crops are favourable. Price of rice is rising. Condition and prospects of jute are fair. Harvesting is going on. Cattle-disease is reported from Palba thana. Damage by insect-pests is reported from Sadar and Serampore subdivisions. Fodder is sufficient.
	Serampore ...	1.36	5 <sup>1</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>16</sub>	
	Arambagh ...	4.25	5 <sup>1</sup> / <sub>2</sub>	6	
11	HOWRAH ...	3.00	5	5	Weather seasonable. Condition of sugarcane is good. Transplantation of <i>aman</i> paddy continues. Condition of jute is good. Slight damage by insects has been done in Ulubaria subdivision. Harvesting of jute continues in low lands. Fodder is sufficient.
	Ulubaria ...	4.89	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
12	RAJSHAHI (RAMPUR-BOALLA).	3.84	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	The prospects of jute and other standing crops are favourable. Harvesting of jute and <i>aus</i> paddy continues. Damage by flood is reported from some places in Sadar subdivision. Fodder is sufficient.
	Narogaon ...	1.48	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Nator ...	2.17	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
13	DINAJPUR ...	0.57	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	Prospects of jute and other <i>bhadoi</i> crops are not favourable in the Sadar subdivision. More rain is wanted in Sadar and Balurghat subdivisions for transplanting of winter paddy. Rice market is rising owing to exports.
	Thakurgaon ...	1.51	5 <sup>1</sup> / <sub>2</sub>	6	
	Balurghat ...	0.78	4 <sup>1</sup> / <sub>2</sub>	5	



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
14	JALPAIGURI	3.58	5	5½	Weather hot. Harvesting of jute continues. Water is insufficient for transplanting of winter paddy. Prospects of standing crops are fair. Fodder is sufficient.
	Alipur ...	2.47	5	5	
15	DARJEELING	5.12	4½	4½	Harvesting of potatoes and maize continues. Marua and cardamom are progressing. Standing crops are growing well. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Cutting and steeping of jute have begun. Transplanting of autumn paddy is retarded owing to drought in Terai. Winter paddy is being transplanted in the hills. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	3.65	4½	4½	
	Siliguri ...	1.57	4	4	
	Kalimpong ...	6.59	5½	5	
16	RANGPUR ...	0.57	4½	4	Weather seasonable. Cutting and steeping of jute and harvesting of <i>aus</i> paddy continue, but the steeping of jute is being retarded by want of rain. The condition and prospects of jute are good. More rain is urgently wanted for winter rice. Weather is not favourable for winter rice. Fodder and water are sufficient. Cattle-disease is reported from Domar, Saidpur and Nilphamari thanas.
	Nilphamari	0.28	4½	4½	
	Kurigram ...	0.16	4½	5	
	Gaibandha ...	0.39	4½	4½	
17	BOGURA ...	1.66	4½	4½	More rain wanted. Harvesting of <i>aus</i> paddy, cutting and steeping of jute and transplanting of winter paddy continue. Steeping of jute is retarded for low flood. Prospects of jute are otherwise fair. Fodder is insufficient in flooded area.
18	PABNA ...	4.48	5	5	<i>Aus</i> paddy has been harvested. Jute crop has been harvested to the extent of four annas but the operation has been stopped in Sirajganj subdivision temporarily for want of water. Supply of fodder is tolerable.
	Sirajganj ...	0.43	4½	4½	
19	MALDA ...	9.91	5	5	Weather hot and cloudy. Transplanting of winter paddy in Kharba thana is retarded for want of rain. Prospects of jute are fair. No damage to crop is reported. Harvesting of <i>bhadoi</i> paddy continues. Slight damage by flood is reported from Gomastapur. Fodder and water are sufficient.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN PEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
20	COOCH BEHAR	4.20	6½	(n)	Weather hot with occasional rains. Harvesting of <i>bitri</i> paddy is going on. Preparation of lands for <i>haimanti</i> paddy going on and transplantation of its seedlings is retarded for want of rain. Prospects and condition of jute and effects of weather on its growth are favourable. Cutting, steeping and washing are going on. Fodder is sufficient.
21	DACCA ...	1.93	4½	4½	Weather seasonable. The decrease of water level is likely to cause damage to broadcast and transplanted <i>aman</i> paddy and to other standing crops. Harvesting of jute and sugarcane continues. Prospects of jute are fair.
	Manikganj ...	2.09	4½	5½	
	Narayanganj	0.99	4½	4½	
	Munshiganj*	0.94	4½	5	
22	MYMENSINGH	0.26	4	4½	Weather hot. More rain is badly wanted. Transplantation of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Want of rain is affecting the transplantation of paddy and steeping of jute. Prospects are fair. Fodder is sufficient, but insufficiency of water is feared.
	Jamalpur ...	Nil	4½	4½	
	Tangail ...	3.76	4½	4½	
	Netrakona ...	1.04	4	4½	
	Kishorganj...	0.58	5½	4½	
23	FARIDPUR ...	4.49	4½	4½	Weather is favourable to the standing crops. Harvesting of <i>aus</i> paddy is nearly finished and that of jute continues. Prospects are fair. Fodder is available.
	Goalundo ...	2.14	5	4½	
	Madaripur ...	2.71	4½	4½	
	Gopalganj†...	2.27	5	4½	
24	BAKARGANJ (BARISAL).	1.65	{ 4½ 6½† }	4½	Prospects of jute are good and those of other crops fair. Weather is favourable to jute. No damage done to the crop. Harvesting continues. Fodder is sufficient. Cattle-disease is prevalent in Mathbaria thana.
	Pirojpur ...	2.21	4½	(n)	
	Patuakhali...	0.88	{ 4½ 5½ }	5	
	Dakshin Shabazpur (Bhola).	1.86	4½	(n)	
25	CHITTAGONG	7.66	5	5½	Prospects of standing crops are good. Cultivation of <i>aman</i> paddy is going on. Harvesting of <i>aus</i> crop is progressing. <i>Panga</i> salt is selling at 10 and 9 seers per rupee at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	13.90	4½	5	
26	TIPPERA (COMILLA).	3.02	4½	4½	The prospects of <i>aus</i> paddy are fair and those of jute are good. Harvesting of jute and <i>aus</i> paddy and transplanting of <i>aman</i> paddy are going on. More water is needed for steeping of jute and for the growth of <i>barshall</i> paddy in Brahmanbaria subdivision: 287 men and 15 children worked daily on an average in test works and for eradicating water hyacinth in Brahmanbaria subdivision.
	Brahmanbaria.	0.69	4½	5	
	Chandpur ...	1.85	4½	4½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ *Aus* rice.



Serial No.	Districts and subdivisions.	Rainfall. •	PRICE OF COMMON RICE, IN PESER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
27	NOAKHALI ...	5.09	4½	4½	Weather seasonable. Prospects of standing crops are good. Prospects of jute and effects of weather on its growth are fair in Sadar and good in Feni subdivisions. Harvesting continues. Fodder sufficient.
	Feni ...	4.95	{ 4½ <sup>5</sup> 5½ <sup>5</sup>	{ 4½ <sup>5</sup> 5½ <sup>5</sup>	
28	CHITTAGONG HILL TRACTS.	3.11	5	5	Prospects of <i>jhum</i> crops are good. Plough cultivation is being retarded owing to insufficient rainfall. Fodder is sufficient.

\* *the rice.*

R. S. FINLOW,  
Offg. Director of Agriculture, Bengal.

DACCA, the 18th August 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 16th August 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<b>Rice—</b>				
Balam, coarse	8 4 0	8 6 0	0 3 4½	0 3 6
" medium	8 7 0	.....	0 3 6	0 3 9
Patnai, coarse	7 12 0	8 2 0	0 3 4½	0 3 6
" medium	8 3 0	8 8 0	0 3 6	0 3 9
Nagra, coarse	7 12 0	8 0 0	0 3 6	.....
" medium	8 3 0	8 8 0	0 3 9	.....
Dudhkalma	8 4 0	8 8 0	0 3 9	.....
Rangoon Boiled	.....	.....	0 3 3	.....
Kajla	7 0 0	7 4 0	0 3 1½	.....
Wheat, Dudhia	7 8 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 0 0	.....	.....	.....
Gram, Patnai (whole)	7 0 0	7 8 0	0 3 0	0 3 6
" dal	8 8 0	9 0 0	0 4 0	0 4 6
Mung " (Hari)	12 8 0	13 0 0	0 8 0	.....
" " (Krishna)	12 0 0	12 4 0	0 6 0	.....
Arhar " "	8 10 0	11 4 0	0 4 0	0 4 6
Masur " (split)	7 2 0	8 2 0	0 3 0	0 3 6
" " (Khanri)	9 10 0	10 6 0	0 3 6	0 4 6
Kalai "	8 0 0	10 0 0	0 3 6	0 5 0
Salt	3 3 0	3 5 6	0 1 6	0 1 9
Sugar (Brown Java)	18 4 0	.....	0 7 6	0 10 0
Gur, Bheli	.....	.....	0 5 0	.....
" Bhursut	9 4 0	9 8 0	0 6 0	.....
" Date	.....	.....	.....	.....
Milk	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	38 8 0	40 8 0	0 14 0	1 2 0
Flour, country	9 6 0	10 7 0	0 4 6	0 5 6
Atta, No. 3	7 8 0	.....	.....	.....
" " 2½	7 12 0	.....	0 3 6	0 5 6
" " B	10 10 0	.....	.....	.....
Suji	9 8 0	10 12 0	0 4 6	0 6 6
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 8 0	2 10 0
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	84 0 0	85 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	81 0 0	82 0 0	2 4 0	.....
Maize	5 8 0	6 0 0	.....	.....
Potato	5 8 0	7 0 0	0 2 6	0 4 0
Patal	6 0 0	7 8 0	0 3 0	0 4 0
Brinjal	5 4 0	5 8 0	0 2 6	0 3 0
Onions	3 10 0	4 4 0	0 1 6	0 2 6
Fish, Rahu	30 0 0	32 0 0	0 10 0	0 15 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

**Wholesale.**—Chetla Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets, Posta Bazar.

**Retail.**—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Kareya Bazar, Taltolla Bazar, Mallick Bazar and Jogu Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 11th August 1919.



## DAILY RAINFALL RECORDED

Division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
24-Parganas.	Hanger Island...	0.11	0.26	0.12	...	0.04	0.20	0.08	...	0.05	0.20	...	0.24	0.46	0.72	...	...	...	...	0.72	0.72
	Diamond Harbour.	0.22	0.47	0.26	...	...	1.25	...	...	0.22	1.35	...	0.34	1.05	2.16	...	0.23	...	...	0.12	0.12
	Bridge-Bridge...	0.46	0.42	0.58	0.18	0.45	1.47	0.24	...	0.15	0.26	0.02	0.24	1.46	0.54	...	1.16	...	0.12	1.22	1.42
	Canning Town...	...	0.20	...	...	0.75	1.11	0.45	0.45	1.22	0.41	...	1.34	0.63	0.25	...	...	...	0.12	1.22	1.42
	Alipore...	...	0.21	0.22	...	0.10	1.19	0.03	...	0.38	0.20	0.23	0.20	0.07	1.35	0.61	2.19	...	0.12	1.22	1.42
	Barackpore...	0.02	0.44	0.22	...	0.27	1.21	0.03	0.02	0.25	...	...	2.25	0.20	0.28	0.02	...	0.02	1.22	1.42	1.42
	Dum-Dum...	0.02	0.10	0.45	...	0.25	1.17	0.10	...	0.25	...	0.20	0.70	0.20	0.10	...	...	0.02	1.22	1.42	1.42
	Lararat...	0.09	0.02	0.28	...	0.05	0.19	0.20	...	0.21	...	...	1.22	...	0.24	0.02	...	0.27	2.24	2.24	2.24
	Basirhat...	...	0.23	0.13	...	0.22	0.24	...	0.14	0.20	...	0.20	1.67	2.25	2.42	...	0.05	...	0.45	1.22	1.42
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nadia.	Rasghat...	...	0.20	0.27	...	...	0.20	0.17	0.03	1.40	0.12	...	1.12	0.20	0.22	0.22	...	...	4.20	0.45	0.45
	Krishnagar...	0.21	0.24	0.11	...	...	1.22	0.21	0.24	0.22	...	...	0.22	0.20	0.22	0.22	...	0.05	0.22	...	0.22
	Chandanga...	...	0.24	0.24	...	...	0.02	1.22	0.22	1.42	0.06	...	0.22	...	...	...	...	...	...	...	...
	Medinipur...	...	0.27	0.27	0.14	0.22	...	0.07	...	0.12	0.02	...	1.20	...	0.17	0.12	...	...	1.22	...	...
	Haridhata...	...	...	0.20	0.22	...	0.20	1.20	...	...	0.22	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Murshidabad.	Randi...	0.26	0.16	0.26	...	...	1.21	1.20	0.04	0.25	2.10	...	0.21	0.20	0.05	0.21	...	...	0.02	...	...
	Berhampore...	...	0.23	0.22	0.25	...	0.11	1.19	...	0.10	1.14	...	0.17	0.22	0.07	0.19	0.22	0.46	...	0.42	...
	Lachung...	0.25	...	0.29	...	...	0.21	0.29	0.18	0.25	0.28	0.16	0.21	0.10	0.24	0.25	0.24	...	0.22	0.22	...
	Asimganj...	0.11	0.11	0.21	...	...	1.22	0.12	0.03	...	...	...	0.22	0.25	0.25	0.25	1.12	...	0.22	0.22	...
	Jangipar...	0.04	0.14	...	...	...	1.08	...	1.24	0.26	0.28	0.24	0.15	0.11	0.07	...	0.16	0.24	0.12	0.22	...
	Lakshmi...	0.16	...	...	...	...	1.22	1.22	...	0.26	0.25	...	...	...	...	0.22	0.22	...	0.22	0.22	...
	Akraganj...	0.14	0.11	...	...	...	0.22	0.12	0.24	0.26	...	...	...	...	...	0.22	0.22	...	0.22	0.22	...
	Parkulbari...	...	0.26	...	...	...	2.01	...	0.22	...	1.40	...	0.24	...	0.22	0.22	0.11	0.11	0.22	0.22	...
	Dumkal...	...	...	0.06	0.06	0.02	...	0.22	...	...	2.11	...	0.16	0.07	0.02	0.02	...	0.02	0.02	0.02	...
	Kalyanpur...	0.16	0.26	0.06	...	...	1.22	...	0.12	0.20	...	...	0.24	0.07	0.24	1.44	0.11	0.22	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jessore.	Narail...	...	0.26	0.26	...	...	0.20	0.24	0.09	0.21	1.21	0.22	0.22	0.22	...	...	...	...	...	...	...
	Jessore...	...	0.22	...	...	...	0.20	0.24	0.09	0.21	1.21	0.22	0.22	0.22	...	...	...	...	...	...	...
	Shibpur...	1.21	...	0.22	...	...	1.20	1.07	0.11	0.20	0.22	...	0.12	0.22	0.22	1.20	0.14	0.14	2.22	0.22	...
	Mazga...	...	1.02	1.22	0.12	0.45	1.20	0.22	0.22	0.22	0.22	...	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	...
	Bongsh...	0.26	0.12	0.22	...	0.10	2.02	0.22	0.22	0.22	0.22	...	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Khulna.	Batkhira...	0.26	0.26	...	0.21	0.26	2.20	0.26	1.10	0.22	0.21	2.40	4.22	1.20	0.21	0.27	...	0.22	0.22	2.12	1.22
	Basirhat...	0.12	0.26	0.20	0.11	1.22	2.27	1.27	1.10	0.12	0.20	0.20	0.12	1.07	0.27	0.22	...	0.22	0.22	1.22	1.22
	Khulna...	0.07	0.22	0.10	0.19	2.20	2.27	0.22	0.12	0.12	2.27	1.20	2.27	0.22	0.22	0.22	0.22	0.22	0.22	1.22	1.22
	Kaliganj...	0.12	0.22	...	...	0.22	2.20	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	1.22	1.22
	Nekipur...	0.07	0.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dumuria...	...	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	...
	Hampal...	0.12	0.22	0.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kaliganj...	0.12	0.22	0.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Batkhira...	0.11	0.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Khulna...	0.12	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	...
Burdwan.	Kalua...	...	0.20	...	...	0.20	0.20	...	0.12	...	...	...	1.22	...	1.12	0.27	...	...	0.20	0.40	1.10
	Burdwan...	...	0.22	0.21	...	...	1.42	0.42	0.24	0.22	...	...	...	0.22	0.27	0.22	0.22	0.22	0.22	1.22	1.22
	Katwa...	0.10	0.24	0.12	...	...	1.22	0.22	0.22	0.22	0.22	0.07	...	0.22	0.22	0.22	0.22	0.22	0.22	1.22	1.22
	Asansol...	...	0.01	0.22	...	...	0.22	0.22	1.22	0.22	0.11	...	...	0.22	0.22	0.22	0.22	0.22	0.22	1.22	1.22
	Mankat...	...	...	...	0.17	...	...	...	0.22	...	...	...	...	...	...	...	...	...	...	...	...
	Mankat...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royra...	...	0.22	0.22	...	...	0.22	0.22	0.40	...	1.22	...	...	0.22	0.22	0.22	0.22	0.22	0.22	1.22	1.22
	Montevar...	0.22	0.22	...	...	1.20	0.20	...	0.40	...	...	...	0.22	...	1.20	1.22	...	...	0.22	0.22	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Birbhum.	Bari...	...	0.20	1.22	0.20	...	0.20	2.20	0.12	1.20	...	...	...	0.20	1.20	0.20	0.20	0.20	0.12	...	...
	Betampur...	0.14	0.22	2.21	...	...	0.22	1.20	0.12	1.20	...	...	...	0.20	1.20	0.20	0.20	0.20	0.12	...	...
	Betampur...	0.22	0.22	0.22	...	...	0.22	0.22	0.22	0.22	0.12	...	...	...	0.20	0.20	0.20	0.20	0.12	...	...
	Belpur...	1.20	0.10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muradpur...	...	0.20	0.20	0.20	...	...	0.22	2.22	2.22	0.22	...	...	...	...	...	...	...	0.20	0.20	...
	Lahpur...	...	0.20	0.20	0.20	...	...	1.21	2.27	0.22	0.21	...	...	0.20	0.12	0.20	0.20	1.20	0.11	0.20	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bansura.	Bansura...	...	1.20	4.20	...	...	2.20	2.20	0.22	0.22	...	...	...	0.20	0.20	0.20	...	...	0.22	0.22	...
	Vidhanpur...	0.22	0.22	1.22	...	...	0.22	0.22													



**BENGAL FOR THE MONTH OF JULY 1919.**

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days	Average number of rainy days	Total rainfall for the month.	Normal rainfall for the month.	Heavy rainfall during the month.	Total rainfall from 1st June up to 31st July 1911.	Normal rainfall from 1st June up to 31st July.	Station.	DISTRICT.	DIVISION.
0.14	...	0.02	0.07	0.14	...	0.02	...	0.02	0.03	0.49	14	16.4	4.31	14.86	0.72	23.16	25.61	Saugor Island ...	24-Narwara	PRESIDENCY.
0.50	...	...	0.04	...	...	...	...	...	0.08	0.13	16	17.2	22.73	14.93	5.99	48.21	25.98	Diamond Harbour.		
...	...	...	0.09	0.32	0.90	...	0.77	0.10	0.12	0.01	20	17.4	18.66	14.34	1.47	28.49	26.57	Bulaga-Budge.		
0.55	...	...	0.78	...	0.53	...	...	...	0.77	...	15	16.4	11.20	12.44	3.11	25.02	23.43	Canning Town.		
1.14	...	...	0.04	...	0.21	0.01	...	...	...	0.06	13	18.2	11.00	12.55	2.19	24.43	24.43	Alipore.		
0.50	...	0.08	0.01	...	0.30	...	0.35	...	0.28	0.30	19	16.3	12.85	13.38	3.10	28.65	28.39	Harrackpore.		
0.70	...	...	0.50	...	0.25	...	...	...	0.47	...	13	16.1	12.25	11.48	2.84	26.61	22.06	Dum-Dum.		
...	1.05	...	...	...	0.25	...	...	...	...	0.34	16	16.2	24.14	13.38	9.84	34.45	35.00	Barasat.		
...	...	...	0.79	...	0.64	...	...	...	...	...	...	...	...	...	...	...	...	Basirhat.		
...	...	...	...	1.18	0.98	...	0.24	...	0.05	0.28	18	15.0	18.53	10.55	4.50	26.91	30.87	Ranaghat	N dia	
...	...	...	...	1.51	...	...	0.10	...	...	0.07	15	15.9	14.61	10.83	4.74	30.71	30.38	Kristengar.		
...	0.48	...	...	0.33	0.35	...	...	...	0.02	0.33	16	15.4	14.53	10.39	3.73	30.55	30.80	Chudanga.		
...	...	...	...	...	...	...	...	...	...	1.28	14	15.0	17.6	10.65	5.25	24.85	20.87	Meherpore.		
...	...	...	...	...	...	...	...	...	...	0.12	13	15.4	7.10	10.78	1.65	10.78	22.04	Kushdia.		
...	...	...	...	...	...	...	...	...	...	0.85	10	10.0	6.18	7.87	1.52	10.79	15.31	Haringhata.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
...	...	...	...	0.22	1.74	0.80	0.60	...	0.50	0.21	17	15.7	12.01	11.78	2.10	19.93	22.33	Kandi	Murshida-	Jesore
...	...	...	...	...	3.00	0.10	...	...	0.16	0.61	19	15.8	10.33	12.86	3.00	21.13	20.75	Bhatpore.	bad.	
...	0.05	...	...	...	0.18	0.61	...	...	0.31	...	20	15.4	8.04	12.23	0.95	21.65	22.62	Lithagar.		
...	...	...	...	0.73	1.09	...	...	0.44	0.22	...	13	15.5	10.85	10.99	2.00	23.53	21.29	Azinganj.		
...	...	...	...	1.23	...	...	...	0.78	...	...	15	15.5	10.78	11.16	2.32	18.22	21.28	Jangipur.		
...	...	...	...	0.74	0.37	...	...	...	0.75	...	15	14.9	12.76	11.21	2.35	22.42	21.15	Lalgola.		
...	0.15	...	...	...	1.55	0.06	...	...	1.35	...	13	14.7	12.00	11.12	3.07	23.26	21.75	Aviganj.		
...	0.07	...	...	0.08	1.64	0.13	...	...	0.10	0.26	24	12.6	12.84	9.88	3.64	18.11	14.02	Pachbari.		
...	...	...	...	...	0.66	...	...	...	0.18	0.09	9	18.1	10.09	10.54	4.68	17.05	21.02	Dumkal.		
...	...	...	...	...	0.88	0.39	...	...	0.92	0.37	16	16.8	7.87	10.24	1.55	10.84	22.36	Kalyanganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
0.60	0.12	...	...	...	1.01	...	...	...	...	0.18	16	15.0	17.4	10.73	...	...	...	Narail	Jesore	Jesore
...	...	...	...	...	1.73	...	...	...	0.80	0.23	20	15.8	16.69	10.85	3.50	27.16	22.72	Jhenida.		
...	...	...	...	...	0.35	...	...	...	0.30	1.06	21	16.1	21.32	10.44	4.06	36.03	22.28	Magura.		
1.91	0.06	...	...	...	1.14	...	...	...	...	0.51	18	15.6	21.69	11.11	4.40	33.70	21.60	Bograon.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
0.68	0.83	...	...	...	...	0.13	...	...	0.13	0.68	19	17.4	20.74	12.87	6.76	39.73	24.78	Satkhira	Khulna	Khulna
0.16	...	...	...	...	0.80	...	1.00	0.12	1.01	0.10	24	16.5	19.63	14.63	4.10	31.31	25.50	Bagerhat.		
0.27	...	...	...	...	0.26	...	0.83	0.20	0.33	1.11	32	18.2	20.08	12.86	3.67	35.88	25.36	Khulna.		
0.10	...	0.10	...	...	1.73	0.18	...	0.13	0.80	...	24	16.6	15.39	18.73	2.80	31.31	32.09	Kalganj.		
0.49	...	...	...	...	0.39	1.20	...	0.02	0.63	0.31	15	15.3	9.58	13.04	1.30	26.11	35.90	Nakipur.		
3.21	0.03	...	...	...	0.04	...	0.11	0.13	0.23	0.99	20	18.1	23.08	10.65	4.10	38.33	27.96	Dumuria.		
0.25	0.48	...	...	...	...	1.15	...	0.95	1.12	0.75	20	18.0	16.96	14.41	3.75	28.89	29.99	Rampal.		
3.14	0.42	...	...	...	3.15	0.07	0.14	...	0.12	0.37	20	17.7	22.09	12.85	4.67	34.04	23.76	Kanara.		
1.40	0.42	...	...	...	0.85	0.20	0.14	...	0.09	0.92	20	19.0	17.36	15.61	2.64	26.07	27.02	Pakagucha.		
0.82	...	...	...	...	0.19	0.09	...	...	0.16	0.26	20	17.1	26.41	16.84	4.60	30.72	30.67	Mofhat.		
0.52	...	0.45	...	...	1.29	0.03	...	0.11	...	0.03	19	19.7	32.88	17.32	4.51	43.37	32.50	Moreiganj.		
3.46	0.06	...	...	...	...	0.10	0.07	...	...	0.72	17	17.1	17.31	16.39	4.02	28.34	27.62	Tala.		
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(n) Not recorded.



## DAILY RAINFALL RECORDED IN

DIVISION	DISTRICT	Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Burdwan	Midnapore	Contai	0.28	0.76	...	...	0.49	1.25	0.01	0.17	...	0.05	...	0.60	0.69	0.12	...	0.48	...	...	1.18	0.02
		Tamra	1.14	0.06	1.20	...	...	0.34	0.22	1.37	1.67	0.07	...	1.72	2.50	0.32	0.10	0.24	...	...	...	...
		Midnapore	...	1.44	0.14	0.74	...	1.21	0.67	0.09	0.04	0.13	...	0.94	0.10	0.25	0.04	0.01	...	0.42	1.44	...
		Chital	0.48	0.97	0.40	...	...	1.50	1.06	...	...	0.20	...	2.45	...	0.25	0.93	...	...	0.62	0.25	...
		Kukurhati	0.43	0.76	0.21	...	0.21	1.01	1.20	...	2.15	...	1.20	0.50	0.79	2.35	...	1.32	...	0.62	0.25	...
		Amalgara	0.02	1.06	0.46	...	...	0.42	1.31	1.32	0.23	...	1.50	0.05	0.26	1.90	...	...	...	0.62	0.25	...
		Pandara	0.10	1.10	0.25	0.20	0.18	1.00	...	...	0.30	0.23	...	1.94	...	1.10	0.90	0.20	...	1.56	3.30	...
		Dantan	0.20	0.40	...	...	0.23	0.28	0.25	0.10	...	...	...	0.20	...	...	0.18	0.47	...	2.40	...	...
		Ch. J. J. J.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pachet	0.86	0.49	0.48	...	0.69	0.48	0.27	0.11	...	...	...	0.60	0.19	0.65	...	1.65	0.47	...	0.61	...
		Bhagwanpur	0.34	1.07	0.11	...	0.27	0.24	0.07	...	0.20	0.07	...	0.45	0.69	0.48	...	0.31	0.03	0.61	0.77	...
		Kulitri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nayabasan	0.14	1.00	0.45	...	0.20	1.48	0.10	0.08	...	...	...	0.60	...	...	...	...	...	...	0.20	0.18
		Silka (Jalpa)	0.68	0.66	...	...	0.49	0.73	0.70	0.06	...	0.10	0.18	0.20	0.29	...	...	...	...	...	2.74	...
		Chandali	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gondal	...	0.88	0.19	...	...	0.52	2.35	0.60	0.40	...	0.40	0.62	...	0.27	0.05	...	...	...	0.62	0.37
		Sa. J. J. J.	0.05	0.84	0.60	0.03	0.04	0.91	...	0.18	...	0.06	...	1.06	...	1.23	0.20	...	...	...	0.62	0.37
		Narayanganj	2.16	0.48	0.67	0.77	1.15	0.26	0.18	0.24	0.19	0.85	0.23	0.76	0.40	...	...	...	...	0.10	...	...
		Hanabagar	0.34	0.89	...	0.18	...	0.18	0.02	...	...	...	...	0.23	0.58	0.18	...	...	...	...	...	...
		Mohamudpur	0.75	2.78	0.18	...	0.34	0.43	0.20	0.16	...	...	...	0.22	...	0.96	...	0.22	...	...	2.58	...
		Hemla	...	1.50	...	...	2.30	0.40	0.50	...	0.20	...	...	0.60	...	...	...	...	0.60	...	2.50	...
		Jena (Kajji)	0.24	0.50	...	...	0.16	0.28	0.01	0.06	0.03	0.08	...	0.49	0.80	0.63	...	0.90	...	...	2.28	0.01
		Nandigram	...	...	...	0.15	0.15	0.50	0.03	...	0.25	0.15	0.00	0.40	0.55	0.05	0.03	0.14	0.07	0.20	0.49	...
		Moyra	...	...	...	...	...	2.30	1.30	1.10	0.80	2.10	...	2.30	2.30	2.00	0.50	1.50	...	...	2.50	...
		Ingla	...	...	0.10	...	0.10	1.30	...	0.10	...	0.50	...	1.04	0.10	0.30	...	...	0.10	0.30	2.50	...
		Narail	0.14	2.03	...	0.02	...	...	0.02	...	...	0.07	...	2.42	...	0.31	...	0.12	...	1.65	0.48	...
Hooghly	Hooghly	Baranagar	0.02	0.32	0.69	...	0.12	1.61	0.04	0.08	1.30	...	...	1.92	0.03	0.70	0.09	0.03	...	1.16	0.18	
		Hemra	...	0.29	0.74	...	0.80	1.50	0.29	0.33	0.17	0.01	...	2.49	0.05	0.32	0.41	0.09	0.05	...	0.34	
		Arandigh	0.04	0.76	0.82	...	...	0.23	1.12	0.07	0.68	...	...	1.64	0.05	0.24	1.78	...	...	0.20	1.10	
Howrah	Howrah	Howrah	0.47	0.49	0.86	...	...	2.21	...	...	1.52	0.14	0.04	0.70	...	1.84	0.07	0.06	...	0.22	1.70	
		Mohor Ba	0.28	1.23	1.03	1.11	0.21	0.28	0.17	...	1.10	1.20	...	0.32	0.53	1.14	1.03	0.09	...	1.89	1.47	
		Chibaria	0.18	0.60	0.32	0.80	0.20	0.78	0.06	...	2.93	1.23	0.03	1.20	0.29	1.60	0.39	...	...	0.62	0.20	
		Amra	...	0.56	...	0.09	0.13	1.70	0.03	0.04	0.40	0.27	...	1.65	...	1.15	0.07	...	0.18	0.40	0.03	
Bostali	Bostali	Bostali	...	0.19	...	0.01	...	...	1.00	0.72	1.12	0.20	0.01	...	...	0.88	0.80	1.24	0.61	0.09	0.10	
		Natore	...	0.42	0.10	0.27	...	0.71	1.12	0.33	0.47	0.08	0.09	...	0.12	0.18	1.16	0.02	0.06	0.60	...	
		Saugor	0.42	0.13	0.39	...	2.23	1.50	0.05	0.15	0.08	1.15	1.25	0.03	0.41	0.23	2.00	...	0.28	...	1.65	
		Hilmaria	0.26	2.00	...	0.06	...	0.70	...	0.07	0.67	0.19	...	0.25	...	1.12	...	...	0.06	0.03	0.22	
		Manda	...	0.40	1.06	...	2.73	...	...	0.70	1.00	1.10	0.20	...	0.22	10.10	...	...	0.25	0.26	...	
		Mandakpur	1.04	0.06	0.04	2.35	2.04	2.29	0.46	0.08	0.40	2.31	0.40	...	0.36	1.30	1.32	...	0.25	...	4.15	
		Tanor	0.20	0.40	...	...	2.80	1.00	0.85	...	0.80	0.60	...	0.18	0.20	0.60	...	1.40	...	...	...	
		Chaugram	...	0.03	0.85	1.25	...	0.90	0.65	0.25	...	...	0.20	0.25	...	...	0.05	0.46	0.10	0.02	1.20	
Dinajpur	Dinajpur	Nitpur	...	0.30	...	...	0.15	0.70	0.85	0.90	1.40	2.00	0.25	...	0.20	0.15	2.00	1.90	2.16	...	3.60	
		Nawabganj	0.30	...	2.00	...	2.80	0.20	0.90	0.20	1.20	2.40	0.20	0.06	...	0.60	...	...	0.15	...	1.40	
		Gouranagar	0.31	...	...	0.77	...	0.80	1.39	0.47	...	0.97	0.24	0.24	...	...	...	...	0.17	...	...	
		Chauramou	...	0.32	0.17	...	...	0.80	0.39	0.47	...	0.97	0.24	0.24	...	...	...	...	0.17	...	...	
		Raigun	...	0.21	0.30	...	...	1.32	0.50	0.61	0.34	1.55	0.54	1.04	0.28	0.44	0.16	0.48	...	0.27	...	
		Dinajpur	...	...	...	...	0.15	0.52	0.03	0.35	1.09	1.13	0.50	0.25	0.13	0.34	0.08	0.11	0.20	0.10	...	
		Belurhat	...	0.22	0.08	0.32	2.19	...	0.06	0.35	0.27	1.96	2.35	0.09	0.27	0.18	0.55	0.75	0.04	0.45	...	
		Thakurgaon	0.19	0.03	...	...	2.29	...	0.10	0.03	0.10	0.03	0.03	0.12	0.35	0.03	1.20	0.38	1.28	...	...	
		Satabara	...	0.23	...	0.40	0.45	3.55	1.35	0.50	0.20	0.20	1.72	1.30	0.13	0.32	0.40	...	0.20	0.25	...	
		Rangpur	0.08	0.23	0.20	0.16	...	0.21	1.00	0.75	...	0.41	1.75	1.50	0.16	0.34	0.51	0.73	0.23	0.23	...	
		Atwar	0.16	0.14	...	...	...	2.11	...	...	4.27	...	4.18	...	0.16	0.10	...	1.68	...	...	1.50	
		Birganj	...	0.41	...	...	...	0.15	0.78	1.20	...	0.72	1.23	1.15	0.11	0.14	0.70	0.64	...	0.20	0.28	
		Parbatipur	...	0.16	...	0.10	0.20	1.80	2.05	0.15	0.18	0.35	...	1.22	0.72	0.03	0.20	0.32	0.15	0.20	0.10	
Jalpaiguri	Jalpaiguri	Jalpaiguri	...	2.66	0.06	0.13	0.50	0.56	1.30	0.22	...	1.64	0.22	0.21	0.76	0.70	2.05	0.90	1.00	0.30	0.05	
		Alipur Duarg	0.24	0.09	0.06	0.03	1.05	0.22	1.77	0.72	...	0.12	2.24	0.64	0.18	0.85	0.70	1.65	0.39	7.65	1.43	
		Fairkata	...	0.02	0.10	...	3.15	0.15	1.70	0.80	0.20	2.75	0.45	0.58	0.10	0.49	0.50	0.54	5.00	0.24	0.18	
		Dohiganj	0.23	0.50	0.08	0.40	0.23	0.72	0.85	0.11	1.24	0.28	1.18	0.24	0.29	1.56	0.33	0.71	0.06	...	...	
		Bhagpur	...	0.35	2.39	2.11	2.60	2.77	0.78	0.05	0.45	2.70	1.09	1.30	2.87	0.76	1.04	0.69	0.61	1.50	2.37	
		(Jalpaiguri)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Buxa	0.16	0.60	2.80	2.25	10.20	0.19	...	0.15	0.65	2.60	1.60	1.40	2.25	1.50	3.50	0.60	0.45	4.25	0.85	
		Kalchini	0.16	0.08	0.25	0.17	0.42	0.65	0.71	0.37	...	0.37	2.24	0.02	1.22	0.09	3.24	0.33	2.60	3.22	0.50	
		Kumargram	...	0.66	1.25	1.30	4.06	2.45	3.03	...	0.66	1.67	...	0.12	0.45	0.94	1.16	0.92	3.18	2.60	0.26	
Dakshin	Dakshin	Sikur	0.03	2.25	2.15	...	2.60	...	1.15	...	0.20	0.55	0.96	4.15	1.15	1.06	2.25	1.61	2.40	4.25	2.30	
		Dargach	...	2.25	0.63	0.21	1.11	2.81	4.79	1.21	1.49	1.45	0.76	1.10	2.26	1.06	0.15	1.78	0.93	0.65	2.50	
		Kalijang	...	1.83	0.62	...	1.01	2.26	2.72	0.66	1.61	0.55	0.07	1.50	1.12	1.80	0.28	0.20	0.18	0.21	0.49	
Rangpur	Rangpur	Mompha	0.23	1.72	0.32	0.12	1.61	1.58	1.98	0.69	2.23	0.99	0.33	2.37	2.06	1.04	0.43	0.74	0.16	0.65	2.28	
		Kuraoor	0.54	3.62	0.52	0.23	3.34	2.24	6.13	1.03	2.54	1.02	0.63	4.53	2.04	2.25	1.11					



BENGAL FOR THE MONTH OF JULY 1919—*contd.*

01	02	03	04	05	06	07	08	09	10	11	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st June up to 31st July 1919.	Normal rainfall from 1st June up to 31st July.	Station.	DISTRICT.	DIVISION.	
0.47	0.09	...	...	...	...	...	...	0.08	0.10	0.03	12	16.1	6.78	13.71	1.35	30.16	23.33	Coutal	Midnapore	Burdwan—contd.	
1.12	...	...	...	0.77	...	0.15	...	0.33	0.03	...	13	13.7	13.32	12.46	2.90	30.23	22.55	Tamluk.	Midnapore.		
0.20	...	...	...	0.13	...	0.09	0.37	...	0.05	0.06	13	13.7	13.32	12.46	2.90	30.23	22.55	Glatal.	Midnapore.		
0.18	...	...	...	1.16	...	0.20	...	...	0.21	...	14	13.2	11.66	12.43	3.45	19.59	32.33	Kukrahati.	Midnapore.		
0.77	...	...	...	...	0.10	...	0.36	...	0.23	...	14	13.5	16.59	13.78	3.16	43.71	34.53	Amiagara.	Midnapore.		
...	...	...	...	...	...	0.80	0.18	...	0.66	0.17	14	13.8	10.39	11.92	1.90	19.27	32.34	Panskura.	Midnapore.		
...	...	...	...	...	...	...	0.45	...	...	...	15	14.7	13.06	11.56	3.30	33.69	31.91	Dantan.	Midnapore.		
...	...	...	...	...	0.80	...	...	...	0.90	...	15	15.5	9.98	11.53	3.40	31.19	31.18	Chandrakona.	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	15	13.9	...	12.93	...	...	...	Pachet.	Midnapore.		
...	...	...	...	1.13	...	0.20	...	0.12	...	...	16	12.4	9.80	13.16	1.65	36.87	33.71	Bhagwanpur.	Midnapore.		
0.83	...	...	...	...	0.35	0.81	...	0.18	...	...	16	13.9	8.48	11.77	1.40	36.39	36.37	Kultiki.	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	18	(n)	6.07	(n)	1.45	18.44	18.44	Nayabasan.	Midnapore.		
0.73	0.95	...	...	...	0.08	...	0.32	...	...	...	13	(n)	10.14	10.04	3.74	22.19	18.88	Sidda (Belga- hard).	Midnapore.		
0.39	...	...	...	...	0.85	...	0.46	0.24	0.48	0.09	14	18.0	...	...	...	...	...	Chandri.	Midnapore.		
...	...	...	...	...	...	...	0.16	...	0.14	0.40	15	(n)	...	(n)	...	...	...	Gosatore.	Midnapore.		
0.13	...	...	...	...	...	...	0.33	...	0.20	...	13	18.0	8.20	12.85	3.26	26.00	21.62	Salboni.	Midnapore.		
0.25	...	0.33	0.23	0.41	...	...	...	0.36	0.36	...	19	14.0	7.50	11.85	1.24	30.36	30.36	Karayanagar.	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	8	12.3	5.17	11.61	2.68	26.33	32.63	Hamanagar.	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	12	13.1	12.27	12.01	2.75	27.78	33.97	Mohasapur.	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	10	13.7	7.90	12.04	3.60	26.08	24.49	Hauria.	Midnapore.		
0.04	...	...	...	...	...	...	...	...	...	...	10	16.1	9.13	12.18	3.75	29.89	27.04	Jenka (Kajari).	Midnapore.		
0.90	...	...	...	0.04	...	0.13	...	0.23	0.84	0.23	0.11	16	13.4	4.35	11.47	1.80	31.20	34.95	Nandigram.		Midnapore.
0.80	...	...	...	...	...	...	...	...	...	...	16	13.4	4.35	11.47	1.80	31.20	34.95	Moyua.	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	14	14.1	7.21	13.64	1.94	19.70	36.70	Pingla.	Midnapore.		
...	...	0.40	...	...	...	...	...	...	0.48	...	14	14.3	9.50	11.97	3.00	49.35	31.55	Narajole.	Midnapore.		
...	...	0.25	...	0.30	0.73	...	0.91	...	0.48	0.33	13	13.3	11.27	12.40	3.42	21.78	39.63	Narajole.	Midnapore.		
1.77	...	...	...	...	...	...	...	0.06	0.39	...	11	16.6	10.61	12.52	1.96	20.71	22.73	Serampore	Hooghly	Rajshahi.	
1.43	0.18	...	...	...	0.65	...	0.04	...	0.08	0.19	15	16.3	11.92	11.08	3.49	31.33	30.32	Hooghly.	Hooghly		
0.33	...	...	...	...	1.24	...	0.37	...	0.65	0.63	16	16.7	12.18	12.64	1.78	19.41	23.44	Arambagh.	Hooghly		
...	...	...	...	...	...	1.98	...	0.10	...	0.48	16	17.3	15.63	19.33	3.31	28.94	23.34	Howrah.	Howrah		
1.32	0.13	0.28	0.18	...	3.14	...	0.02	...	...	...	20	16.5	18.91	13.40	3.14	26.73	34.69	Moharaka.	Howrah		
0.33	...	...	0.03	...	1.40	0.20	...	0.50	...	...	18	17.2	13.44	12.86	3.93	26.23	32.77	Uluberia.	Howrah		
0.90	...	...	...	...	4.90	...	0.33	0.03	...	0.91	18	13.3	11.78	12.12	4.30	29.16	24.64	Anta.	Howrah		
...	...	...	...	...	...	...	...	...	...	...	17	15.1	13.99	10.91	3.33	33.99	31.33	Boalia.	Boalia		
0.68	...	...	...	...	...	0.25	...	...	0.10	...	16	16.1	12.20	12.49	3.66	19.31	22.56	Nator.	Boalia		
...	...	...	0.13	0.94	...	0.05	...	...	0.15	...	16	15.5	13.35	11.72	7.65	30.11	34.78	Nangan.	Boalia		
1.39	0.00	0.99	...	...	...	0.06	...	...	0.15	...	19	14.9	13.07	10.80	4.00	37.49	21.24	Bilmari.	Boalia		
...	...	...	...	...	...	...	...	...	...	...	18	14.0	33.24	12.36	10.10	26.04	32.94	Manda.	Boalia		
0.43	...	...	...	...	1.04	1.18	...	...	0.23	...	17	15.0	22.93	11.08	4.15	37.02	33.76	Mahadebpur.	Boalia		
0.90	...	...	...	...	0.23	...	...	...	0.20	...	14	14.6	13.40	10.96	3.80	20.17	31.33	Tanor.	Boalia		
0.33	0.03	...	...	...	...	...	...	...	0.05	...	13	(n)	12.36	(n)	3.25	17.00	...	Chaugram.	Boalia		
...	...	...	...	...	...	...	...	...	...	...	19	14.7	19.61	19.04	3.40	29.21	33.43	Nitpur.	Dinajpur	Rajshahi.	
0.90	...	...	...	...	...	...	...	...	0.10	...	16	12.7	15.57	16.47	3.30	35.17	32.27	Nazimganj.	Dinajpur		
1.64	...	...	...	...	...	...	...	...	0.65	0.47	16	13.4	16.07	10.91	4.95	24.80	28.71	Gangarampur.	Dinajpur		
2.44	...	...	...	...	...	...	...	...	0.47	...	18	15.4	13.33	13.63	3.64	25.16	25.16	Churamon.	Dinajpur		
3.28	0.20	...	...	...	2.63	0.11	0.36	...	...	0.36	21	16.3	13.74	14.94	3.63	26.73	27.60	Raiganj.	Dinajpur		
2.10	0.04	...	...	...	0.08	2.76	...	...	0.40	...	16	16.3	16.53	15.15	3.75	30.68	29.66	Dinajpur.	Dinajpur		
4.53	0.06	...	...	...	0.12	0.99	...	...	...	...	18	16.3	21.16	13.25	4.80	33.47	33.70	Balukhat.	Dinajpur		
0.74	0.13	0.10	0.14	1.34	0.27	...	...	...	...	0.30	17	15.9	13.49	19.27	3.10	33.65	36.66	Thakurgan.	Dinajpur		
1.85	...	...	...	...	...	...	...	...	...	...	17	13.9	15.00	14.78	3.35	30.63	30.04	Natalganj.	Dinajpur		
1.43	0.26	0.66	...	...	0.28	0.08	...	...	...	...	31	16.6	13.73	13.22	1.73	38.80	32.54	Hanganj.	Dinajpur		
...	...	...	...	...	...	...	...	...	...	...	13	18.7	19.20	26.73	4.27	42.83	46.67	Atwari.	Dinajpur		
...	...	...	...	...	...	...	...	...	...	...	18	14.7	13.16	16.34	2.73	30.36	33.14	Hirganj.	Dinajpur		
0.10	0.12	0.34	0.24	...	0.41	...	...	...	0.13	...	21	14.1	12.23	10.09	2.63	26.33	29.49	Parbatipur.	Dinajpur		
0.90	0.10	0.08	...	...	0.35	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Dinajpur
0.90	0.70	...	...	1.10	4.15	0.04	...	...	0.11	0.80	21	20.6	26.19	29.64	5.50	53.33	54.78	Jalpaiguri	Jalpaiguri	Rajshahi.	
3.13	1.85	1.70	...	3.42	0.71	0.06	0.23	...	0.05	...	23	18.7	21.69	22.18	7.66	58.22	61.87	Alipur Duara.	Jalpaiguri		
0.86	1.60	0.15	...	2.65	2.97	...	...	...	...	...	23	1.3	27.65	27.34	6.00	48.67	50.11	Falakata.	Jalpaiguri		
0.93	0.79	3.70	...	0.39	...	...	...	...	0.48	...	20	17.3	17.81	19.42	3.15	43.29	35.13	Debaganj.	Jalpaiguri		
0.27	0.68	0.35	3.39	0.60	0.12	0.25	0.65	0.02	...	0.17	27	24.9	29.42	31.70	2.70	70.10	63.20	Bhagatpur.	Jalpaiguri		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(Vagradhata).	Jalpaiguri		
3.90	0.00	0.03	3.70	1.63	0.86	0.10	...	...	...	...	25	24.6	31.77	30.36	10.20	103.07	89.31	Duxa.	Jalpaiguri		
3.28	1.74	0.14	3.32	2.69	0.57	0.05	...	...	...	...	22	22.9	39.34	34.91	9.42	73.03	60.96	Kuchini.	Jalpaiguri		
4.54	5.89	0.11	6.76	4.81	1.28	0.29	...	...	...	...	24	21.0	34.01	40.70	8.75	79.55	71.49	Kamargram.	Jalpaiguri		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Jalpaiguri	
0.55	0.55	0.63	1.15	2.03	0.06	0.44	...	...	0.45	...	23	22.8	42.03	22.40	5.60	69.96	57.40	Siliguri.	Darjeeling	Rajshahi.	
3.24	0.88	0.16	0.39	1.10	1.36	0.09	...	0.01	...	...	26	25.7	35.69	32.15	4.79	65.81	65.75				



## DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAJ- SHAMI.	Malda	Malda	...	0.23	0.24	0.27	...	0.09	0.08	0.55	1.11	0.04	5.70	0.27	0.06	0.94	1.31	0.61	0.64	4.44	0.35	0.04
		Chanchal	0.04	0.05	0.15	1.50	0.18	0.30	0.27	0.28	0.46	0.94	3.04	0.27	0.23	0.73	0.75	0.43	3.27	0.80	1.25	0.02
		Basel	1.80	...	2.25	...	...	0.65	2.40	0.30	1.50	0.30	2.27	0.20	0.08	0.40	0.85	1.50	1.50	3.25	0.55	0.16
		Siliguri	0.50	0.15	...	...	0.24	1.25	0.71	1.30	0.10	2.50	0.23	0.03	2.60	1.65	2.50	0.10	0.40	...	...	...
		Gommalapur	...	...	...	0.64	0.41	1.40	...	2.50	1.25	1.94	4.67	...	...	1.18	...	...	0.66	...	...	...
	Dacca	Nawabganj	...	0.44	0.14	...	1.10	0.50	0.50	0.45	1.06	0.46	...	...	4.84	1.30	...	0.25	...	...	...	...
		Munshiganj	...	0.20	0.10	0.71	0.68	2.64	0.25	1.68	...	2.16	...	0.22	3.47	0.73	0.79	0.55	0.55	0.59	0.05	0.77
		Dacca	...	0.40	0.15	0.05	0.15	2.65	1.20	...	0.03	0.03	0.04	2.21	2.24	0.55	0.42	0.01	0.27	1.70	0.65	1.80
		Nawabganj	...	...	...	...	...	0.01	0.28	1.22	...	1.13	1.63	1.50	1.00	0.33	0.01	0.50	0.03	0.04	0.27	...
		Narayanganj	0.12	0.42	0.13	0.06	1.99	2.76	1.64	0.04	0.11	0.03	0.04	0.28	5.26	0.08	0.61	0.02	0.07	0.20	0.04	0.02
	Mymensingh	Narayanganj	0.20	0.03	...	...	0.10	0.18	0.48	0.02	0.10	...	...	...	0.05	1.10	0.18	0.04	1.48	1.16	0.43	...
		Manikganj	...	0.19	0.21	...	0.23	3.17	0.93	0.40	0.30	...	0.6	0.93	2.61	0.22	0.28	...	0.06	...	0.15	0.26
		Joydipura	0.05	0.22	0.04	0.12	0.57	2.48	0.01	0.53	0.28	0.10	1.82	0.07	1.48	1.33	0.43	0.01	0.70	1.45	0.18	0.18
		Rajshahi	...	0.02	...	0.08	...	0.20	0.20	0.45	0.45	...	0.26	0.20	1.43	1.18	0.50	1.80	0.20	0.20	0.25	0.25
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	Kishorganj	3.14	...	0.24	...	0.05	3.23	...	0.65	0.70	0.93	...	1.65	0.37	0.65	1.70	2.10	2.75	0.38	0.10	2.00
		Atia (Tangail)	1.00	0.05	1.02	1.25	0.55	0.73	1.02	0.45	0.35	...	0.73	0.26	1.03	0.31	...	...	1.02	0.80	...	10.61
		Barisal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mymensingh	0.02	0.42	0.12	0.06	0.86	0.65	0.69	0.19	0.20	0.28	0.16	0.18	0.10	0.34	0.71	1.27	0.01	5.12	0.11	0.73
		Jamshilpur	0.05	1.05	0.25	0.75	0.24	0.47	1.61	0.91	0.04	0.58	0.93	0.03	0.21	0.70	0.68	0.53	0.14	1.22	0.02	0.10
	Dacca	Netrokona	0.05	0.60	0.23	1.15	0.86	2.60	0.42	0.42	0.15	0.48	1.18	0.20	0.02	0.35	1.65	0.25	0.04	2.20	0.16	1.10
		Pingla	0.16	...	0.24	0.55	0.02	0.04	0.25	0.11	0.14	0.08	...	...	0.07	1.22	0.21	2.45	0.05	0.07	0.65	1.43
		Durgapur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Shariatpur	0.06	0.27	...	0.27	...	0.55	1.05	...	...	...	0.11	0.15	0.19	...	...	0.65	0.23	0.21	0.18	1.42
		Dewanganj	0.05	0.07	0.40	2.04	1.05	0.55	...	...	0.62	2.50	0.25	0.21	0.65	0.25	2.00	0.13	2.08	...	0.05	4.77
	Patna	Nalitbari	...	2.50	0.50	2.65	0.20	1.10	0.40	1.67	2.00	0.70	1.95	0.23	0.20	0.50	1.50	0.50	0.20	0.30	0.45	0.00
		Madanipur	0.41	0.05	0.13	0.63	0.47	4.18	0.16	0.71	0.65	0.45	0.71	0.19	0.74	0.23	...	0.23	0.29	1.27	1.25	4.29
		Faridpur	...	0.40	0.03	0.47	0.04	0.94	0.63	0.24	0.52	0.04	0.16	0.60	0.74	2.01	0.40	0.12	...	0.16	1.25	1.44
		Kajal	...	0.18	1.03	0.10	0.03	2.71	0.63	0.28	0.54	0.63	0.06	0.24	0.23	1.40	0.51	0.25	...	0.73	0.05	3.73
		(Goulamda)	0.53	0.44	0.25	0.25	1.44	2.05	0.02	0.20	...	0.14	1.18	0.38	1.08	0.04	0.01	0.02	0.08	0.20	4.40	2.62
	Bahariganj	Haridwar	0.02	0.43	0.23	0.23	2.80	2.87	0.27	0.03	0.03	0.14	0.09	2.19	0.73	0.02	1.20	0.04	0.07	0.43	1.90	2.25
		Takshil	1.25	0.50	...	0.73	2.94	2.85	1.50	0.25	0.05	1.05	1.70	0.20	0.05	...	...	1.05	1.80	2.03	2.25	1.25
		Bhanga	...	0.23	0.50	0.47	...	0.15	0.15	0.21	1.85	0.12	0.12	0.23	0.53	0.06	0.44	1.02	...	2.15	...	...
		Bahadur	...	0.23	0.65	0.05	...	0.41	1.05	0.02	0.90	0.20	0.01	0.07	0.45	1.21	1.65	0.64	0.20	2.71	0.73	3.60
		Bhanga	...	0.63	...	0.45	...	2.45	1.25	0.14	0.23	0.25	0.15	1.55	0.21	1.25	0.24	...	1.17	0.45	1.75	4.00
	Dacca	Bhalong	...	0.40	0.23	0.70	1.80	2.59	0.25	0.61	0.65	1.70	0.75	0.05	0.40	0.20	0.10	...	0.65	0.64	2.42	4.00
		Patnakhali	0.27	0.90	0.21	0.16	1.70	10.15	2.74	2.07	0.43	0.60	0.50	1.44	0.81	0.73	1.14	0.23	0.75	0.35	5.05	7.15
		Baruaga	0.71	0.09	0.21	1.29	4.25	1.23	2.42	0.43	0.33	0.05	2.21	1.24	0.45	2.24	0.19	0.17	0.53	1.19	5.12	0.21
		Pasurpur	0.05	1.22	0.13	0.62	1.39	2.4	0.47	0.95	0.13	0.05	0.05	0.91	0.31	0.25	0.56	0.59	1.50	0.10	1.55	5.55
		Barisal	...	1.01	...	0.51	2.13	5.80	0.59	2.60	1.12	0.65	0.21	1.70	0.35	1.05	0.32	1.18	0.26	0.42	0.45	4.65
	Chittagong	Gourmad	0.05	0.45	0.20	0.20	2.90	4.25	0.45	2.50	0.90	0.25	1.60	0.12	0.45	0.23	0.45	0.13	0.65	1.02	1.22	5.60
		Bhola	0.22	0.70	0.15	...	0.95	2.12	0.40	0.77	0.54	0.19	0.16	0.52	0.23	0.21	0.40	0.64	0.62	0.25	2.44	6.60
		Dumukhan	0.19	1.02	0.05	0.04	1.46	2.30	2.10	0.20	0.08	0.05	0.22	0.10	0.18	0.25	0.62	1.50	1.45	0.50	1.07	4.03
		Bauphal	0.34	0.54	0.90	2.75	5.59	1.51	1.61	1.70	0.37	0.40	2.67	...	...	2.85	1.11	1.91	2.55	3.11	5.49	1.08
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tippur	Gumla	...	...	0.45	...	1.10	1.75	0.50	0.02	0.16	0.09	0.71	1.96	...	1.05	0.14	0.10	2.61	1.19	0.50	5.67
		Chandpur	0.15	0.65	0.35	0.62	0.55	0.53	0.40	1.07	0.35	0.40	1.20	0.07	0.17	1.15	0.37	0.17	1.90	0.20	1.67	4.10
		Brahmanbaria	0.23	0.02	...	0.12	...	1.39	0.34	0.02	...	0.05	0.90	0.02	0.29	0.14	0.27	0.19	0.16	0.45	1.85	2.25
		Banshalpur	0.05	0.10	...	...	0.50	0.50	0.54	...	0.16	1.79	0.05	0.25	0.35	1.21	0.10	0.10	0.25	1.75	2.55	...
		Narail	0.40	0.05	...	...	0.50	0.32	0.34	...	...	...	1.05	...	...	...	0.45	...	...	0.18	0.75	...
	Noakhali	Dandakandi	0.50	0.22	0.24	...	0.57	0.34	1.30	0.50	0.40	1.52	0.50	0.47	0.65	0.75	0.77	0.17	...	...	0.80	0.65
		Kasba	...	...	0.40	...	1.10	1.13	0.55	...	...	...	0.65	0.35	...	1.23	...	...	...	1.21	2.10	...
		Laxman	0.03	0.11	0.37	0.10	0.85	1.73	0.22	0.05	...	0.05	0.21	2.02	0.18	1.80	0.12	0.16	0.21	4.85	0.70	0.05
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong	Noakhali	0.02	0.74	0.65	...	0.05	1.34	2.22	0.45	0.02	0.25	0.52	1.95	1.20	1.25	0.55	1.20	0.43	2.90	6.55	...
		Paal	0.12	0.08	0.45	0.22	0.09	1.55	2.80	2.22	0.24	1.77	0.73	0.23	1.70	0.67	1.60	0.67	0.64	1.06	4.68	6.05
		Haridwar	...	0.29	0.24	0.05	1.07	1.55	0.56	1.42	0.37	1.64	0.21	1.97	0.69	0.35	0.93	0.16	3.23	2.91	2.83	6.01
		Banshalpur	...	...	0.40	0.10	1.63	0.17	0.48	0.93	0.10	0.65	0.71	0.34	0.51	1.61	0.35	0.70	2.76	2.62	2.91	5.24
		Chhawanaya	0.13	1.18	1.45	0.09	0.56	1.15	0.65	3.10	0.23	0.43	1.37	5.16	0.69	0.42	2.00	0.83	6.68	2.47	5.20	5.14
	Hill Tippe- ra.	Lakshimpur	...	0.74	0.70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



## BENGAL FOR THE MONTH OF JULY 1919—continued.

	22	23	24	25	26	27	28	29	30	31	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Excess rainfall during the month.	Total rainfall from 1st June up to 31st July 1919.	Normal rainfall from 1st June up to 31st July.	Station.	DISTRICT.	DIVISION.	
0.58	0.56	0.01	...	...	0.25	...	...	...	0.19	0.02	16	14.8	34.84	10.88	23.96	36.15	31.06	Malda.	Malda	RAJSHAH.	
0.50	0.52	0.40	...	0.35	0.19	0.47	...	...	0.06	0.25	24	17.2	18.55	13.93	4.62	36.05	35.43	Chanchal.	Malda		
0.50	0.52	...	...	2.50	0.75	1.30	0.35	...	...	0.34	23	15.3	28.22	12.81	15.41	42.02	38.64	Gosol.	Malda		
0.45	0.56	...	...	2.05	0.75	...	...	0.10	0.04	...	18	15.5	14.07	11.11	3.00	37.21	30.93	Sibganj.	Malda		
...	...	...	...	...	1.08	...	...	...	1.57	0.82	13	14.7	35.72	11.05	24.67	31.70	31.70	Gomastapur.	Malda	RAJSHAH.	
...	...	...	...	...	0.50	0.47	0.08	0.05	0.05	...	14	14.3	19.39	10.06	9.33	30.73	31.05	Nawabganj.	Malda		
...	...	...	...	0.67	3.75	0.05	0.07	...	0.09	0.73	20	17.5	34.92	13.73	21.19	34.63	38.09	Monahiganj.	Dacca	DACA.	
...	...	...	...	1.00	1.08	...	0.08	...	0.94	0.03	11	17.6	17.85	12.68	5.17	33.05	36.57	Dacca.	Dacca		
...	...	...	...	0.70	0.20	...	...	...	1.15	...	13	18.9	11.04	12.69	1.35	19.62	20.90	Nawabganj.	Dacca		
...	...	...	...	2.23	1.70	0.64	0.68	...	0.14	0.11	18	17.7	21.04	13.78	7.26	38.36	37.69	Narayanganj.	Dacca		
...	...	...	...	0.08	2.00	...	0.60	...	0.69	...	16	16.0	10.99	11.01	0.00	17.17	37.22	Narsingdi.	Dacca	DACA.	
...	...	...	...	1.85	2.48	...	0.16	0.09	0.80	0.02	18	15.9	19.85	11.61	8.24	35.78	33.04	Manikganj.	Dacca		
...	...	...	...	2.03	1.11	...	0.13	...	0.16	...	20	17.4	18.38	12.08	6.30	33.31	37.23	Joydebpur.	Dacca		
...	...	...	...	0.20	0.20	0.20	0.25	...	0.15	0.20	21	18.6	10.86	14.29	1.40	16.73	28.37	Kapasia.	Dacca		
0.50	0.26	...	...	0.25	4.17	...	...	...	0.80	0.09	20	17.2	34.01	14.23	20.78	50.97	32.55	Kishorganj.	Mymensingh	DACA.	
...	...	...	...	...	1.70	...	...	...	...	...	19	18.7	26.83	10.94	15.89	10.08	31.19	Arta (Tufanganj).	Mymensingh		
...	...	...	...	...	...	...	...	...	...	...	25	19.2	21.23	16.16	5.07	34.66	35.23	Sarishabari.	Mymensingh		
...	...	...	...	0.23	0.40	1.65	0.85	0.02	...	0.06	19	18.9	18.09	13.95	4.14	32.45	39.03	Mymensingh.	Mymensingh		
...	...	...	...	0.24	1.50	0.13	...	...	...	...	23	21.5	22.21	10.95	11.26	41.24	43.57	Jamshilpur.	Mymensingh	DACA.	
...	...	...	...	0.25	0.59	...	0.22	...	0.05	0.31	16	13.2	10.43	9.47	0.00	38.38	33.17	Netrokona.	Mymensingh		
...	...	...	...	0.71	0.14	...	...	...	0.05	0.31	16	13.2	10.43	9.47	0.00	38.38	33.17	Pingla.	Mymensingh		
...	...	...	...	...	...	...	...	...	...	...	14	18.3	9.29	17.30	2.03	11.93	33.37	Durgapur.	Mymensingh		
...	...	...	...	...	...	...	...	...	...	...	17	13.8	20.45	14.17	6.28	35.03	30.09	Sherpur (Tufan).	Mymensingh	DACA.	
...	...	...	...	...	...	...	...	...	...	...	28	18.6	23.84	20.28	3.56	39.68	41.91	Dewanganj.	Mymensingh		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nalitabari.	Mymensingh		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mymensingh	
1.35	...	...	...	0.29	0.33	1.13	...	...	0.49	0.34	24	17.1	21.14	13.48	7.66	36.02	38.22	Madaripur.	Faridpur	DACA.	
1.07	1.01	0.08	...	0.54	1.95	...	...	...	0.12	0.14	24	17.2	15.55	12.79	2.76	31.01	31.43	Faridpur.	Faridpur		
...	...	...	...	0.32	1.26	...	...	...	...	0.11	19	15.3	15.31	10.64	4.67	25.18	23.35	Rajbari.	Faridpur		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(Gostardo).	Faridpur		
1.46	0.01	...	...	0.03	0.03	0.15	...	...	0.03	0.15	19	17.6	18.60	12.84	5.76	39.30	37.72	Haridaspur.	Faridpur	DACA.	
...	...	...	...	...	0.32	0.12	0.30	...	0.41	0.13	19	16.9	20.77	13.20	7.57	32.19	33.20	Takherhat.	Faridpur		
...	...	...	...	...	0.26	...	...	...	0.05	...	20	16.2	25.78	10.06	15.72	43.01	33.23	Bhanga.	Faridpur		
...	...	...	...	...	0.19	...	...	...	0.13	0.27	22	18.4	20.22	12.13	8.09	32.65	36.95	Pangsha.	Faridpur		
...	...	...	...	...	0.47	...	0.04	...	0.04	0.11	19	17.0	15.86	12.08	3.78	27.05	28.15	Balishandi.	Faridpur	DACA.	
...	...	...	...	...	0.23	...	...	...	0.45	...	21	17.4	10.36	10.69	0.00	30.05	34.43	Bhusua.	Faridpur		
...	...	...	...	...	...	...	...	...	0.15	...	22	20.2	28.65	15.95	12.70	40.40	35.68	Palong.	Faridpur		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Faridpur	
0.30	...	...	...	0.45	2.47	0.65	0.07	0.09	...	0.15	25	22.3	41.04	21.57	19.47	59.64	43.35	Patnakhali.	Bakerganj	DACA.	
...	...	...	...	0.61	...	...	...	...	...	...	20	22.0	30.67	22.47	8.20	46.83	49.27	Barguna.	Bakerganj		
...	...	...	...	...	1.10	0.18	...	...	...	...	28	20.2	23.20	15.93	7.27	34.14	31.24	Protpur.	Bakerganj		
...	...	...	...	...	0.23	0.03	...	...	...	...	23	20.5	28.56	15.95	12.61	42.25	31.64	Barisal.	Bakerganj		
...	...	...	...	...	...	...	...	...	...	...	24	18.7	26.59	13.71	12.88	40.54	27.63	Gaurad.	Bakerganj	DACA.	
...	...	...	...	...	1.10	0.08	0.02	...	0.00	0.02	23	21.5	20.51	17.36	3.15	48.83	36.10	Bhola.	Bakerganj		
...	...	...	...	...	...	...	...	...	0.52	0.40	20	20.8	21.00	19.13	1.87	45.67	40.44	Daulatkhali.	Bakerganj		
...	...	...	...	...	...	...	...	...	0.21	0.21	21	21.1	39.02	18.82	20.20	62.10	38.96	Bauphal.	Bakerganj		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakerganj	DACA.
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Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 14th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	9th August 1919	21.27'	101.83'	123.10'	1.70'	...	126.90'	117.00'	
	... { Rajmahal ...	9th "	22.10'	56.319'	78.419'	0.50'	...	84.96'	75.28'	
	... { Goalundo ...	9th "	20.70'	...	...	...	0.30'	24.00'	21.30'	
Brahmaputra	Gaubati ...	9th "	17.70'	148.76'	166.46'	...	0.20'	174.86'	175.46'	
	... { Serajganj ...	9th "	36.10'	...	...	...	0.20'	...	...	
	... { Dibrugarh ...	9th "	15.20'	...	...	0.20'	...	...	...	
Meghna	Bhairab Bazar	9th "	16.08'	1.61'	17.69'	...	0.09'	...	...	
	... { Chandpur ...	9th "	11.25'	1.61'	12.86'	Steady	...	...	...	
	... { Fenchuganj ...	9th "	23.00'	...	...	...	0.20'	...	...	
Dhaleswari	... Sabhar ...	9th "	26.70'	- 8.62'	18.08'	...	0.40'	...	...	
Bhagirathi	... Swarupganj	9th "	20.57'	1.509'	22.079'	0.67'	...	29.00'	16.24'	
Damodar	... Edilpur ...	9th "	16.50'	92.58'	109.08'	2.33'	...	...	...	
Lakhya	... Narayanganj	9th "	20.73'	- 5.59'	15.14'	...	0.69'	...	...	
Madaripur Bil Route	... Takerhat ...	9th "	12.50'	- 0.599'	11.901'	...	0.10'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 14th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	10th Aug. 1919	6 A.M....	23.77'	101.83'	125.60'	2.50'	...	126.70'	117.50'	
	10th " "	6 " "	23.95'	56.319'	80.269'	1.85'	...	85.01'	76.26'	
	10th " "	8 hours...	20.60'	...	...	...	0.10'	24.00'	21.40'	
Brahmaputra	10th " "	8 A.M....	17.70'	148.76'	166.46'	Steady		173.76'	176.56'	
	10th " "	12 hours...	35.80'	...	...	...	0.30'	...	...	
	10th " "	8 A.M....	15.35'	...	...	0.15'	...	...	...	
Meghna	10th " "	6 hours...	15.83'	1.61'	17.44'	...	0.25'	...	...	
	10th " "	18 hours...	11.50'	1.61'	13.11'	0.25'	...	...	...	
	10th " "	7 A.M....	22.80'	...	...	...	0.20'	...	...	
Dhaleswari	10th " "	7 " "	26.30'	- 8.62'	17.68'	...	0.40'	...	...	
Bhagirathi	10th " "	6 " "	20.98'	1.509'	22.489'	0.41'	...	28.93'	17.81'	
Damodar	10th " "	6 " "	13.75'	92.58'	106.33'	...	2.75'	...	...	
Lakhya	10th " "	...	20.60'	- 5.59'	15.01'	...	0.13'	...	...	
Madaripur Bil Route	10th " "	6 A.M....	12.40'	- 0.599'	11.801'	...	0.10'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 14th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	11th Aug. 1919	6 A.M. ...	24.67'	101.83'	126.50'	0.90'	...	126.40'	117.70'	
	11th "	6 "	25.10'	56.319'	81.419'	1.15'	...	84.91'	76.91'	
	11th "	8 hours ...	21.00'	...	...	0.40'	...	23.90'	21.70'	
Brahmaputra	11th "	8 A.M. ...	17.60'	148.76'	166.36'	...	0.10'	173.36'	176.66'	
	11th "	12 hours ...	35.70'	...	...	...	0.10'	...	...	
	11th "	8 A.M. ...	15.00'	...	...	...	0.35'	...	...	
Meghna	11th "	6 hours ...	15.67'	1.61'	17.28'	...	0.16'	...	...	
	11th "	6.20 "	11.17'	1.61'	12.78'	...	0.33'	...	...	
	11th "	7 A.M. ...	22.60'	...	...	...	0.20'	...	...	
Dhaleswari	11th "	7. "	26.10'	- 8.62'	17.48'	...	0.20'	...	...	
	11th "	6 "	21.57'	1.509'	23.079'	0.59'	...	28.83'	19.52'	
Lakhya	11th "	6 "	12.50'	92.58'	105.08'	...	1.25'	...	...	
	11th "	...	21.00'	- 5.59'	15.41'	0.40'	...	...	...	
Madaripur Bil Route	11th "	6 A.M. ...	12.20'	- 0.599'	11.601'	...	0.20'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 14th August 1919.

Names of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	Monghyr ...	12th Aug. 1919	6 A.M.	25.27'	101.83'	127.10'	0.60'	...	126.10'	117.70'
	... { Rajmahal ...	12th "	6 "	25.80'	56.319'	82.119'	0.70'	...	84.96'	77.08'
	... { Goalundo ...	12th "	8 hours	21.60'	...	...	0.60'	...	23.90'	22.00'
Brahmaputra	Gauhati ...	12th "	8 A.M.	17.70'	148.76'	166.46'	0.10'	...	172.76'	176.96'
	... { Serajganj ...	12th "	12 hours	35.70'	...	...	steady	...	...	...
	... { Dibrugarh ...	12th "	8 A.M.	15.40'	...	...	0.40'	...	...	...
Meghna	Bhairab Bazar ...	12th "	6 hours	15.58'	1.61'	17.19'	...	0.09'	...	...
	... { Chandpur ...	12th "	7 "	11.50'	1.61'	13.11'	0.33'	...	...	...
	... { Fenchuganj ...	12th "	7 A.M.	22.40'	...	...	...	0.20'	...	...
Dhaleswari	Sabhar ...	12th "	7 "	25.90'	-8.62'	17.28'	...	0.20'	...	...
Bhagirathi	Swarupganj ...	12th "	6 "	22.86'	1.509'	24.369'	1.29'	...	28.70'	21.45'
Damodar	Edilpur ...	12th "	6 "	11.83'	92.58'	104.41'	...	0.67'	...	...
Lakhya	Narayanganj ...	12th "	...	21.04'	-5.59'	15.45'	0.04'	...	...	...
Madaripur Bil Route	Takerbat ...	12th "	6 A.M.	12.20'	-0.599'	11.601'	steady	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 14th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	13th Aug. 1919	6 A.M.	25.27'	101.83'	127.10'	steady	125.70'	117.90'	
	... { Rajmahal ...	13th " "	6 " "	26.40'	56.319'	82.719'	0.60'	84.76'	77.21'	
	... { Goalundo ...	13th " "	8 hours	21.90'	...	-	0.30'	23.90'	22.10'	
Brahmaputra	Gauhati ...	13th " "	8 A.M.	17.90'	148.76'	166.66'	0.20'	172.26'	177.76'	
	... { Seraiganj ...	13th " "	12 hours	35.60'	...	...	0.10'	...	...	
	... { Dibrugarh ...	13th " "	8 A.M.	15.30'	...	...	0.10'	...	...	
Meghna	Bhairab Bazar	13th " "	6 hours	15.42'	1.61'	17.03'	...	0.16'	...	
	... { Chandpur ...	13th " "	7.30 "	12.00'	1.61'	13.61'	0.50'	...	...	
	... { Fenchuganj ...	13th " "	7 A.M.	22.30'	...	...	0.10'	...	...	
Dhaleswari	... Sabhar ...	13th " "	7 "	25.80'	-8.62'	17.18'	...	0.10'	...	
Bhagirathi	... Swarupganj ..	13th " "	6 "	24.66'	1.509'	26.169'	1.80'	28.63'	23.10'	
Damodar	... Edilpur ...	13th " "	6 "	15.50'	92.58'	108.08'	3.67'	...	...	
Lakhya	... Narayanganj	13th " "	...	21.04'	-5.59'	15.45'	steady	...	...	
Madaripur Bill Route	... Takerbat ...	13th " "	6 A.M.	12.20'	-0.599'	11.601'	steady	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 14th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	14th Aug. 1919	6 A.M. ...	25.57'	101.83'	127.40'	0.30'	...	125.50'	118.30'
	... { Rajmahal ...	14th "	6 "	26.65'	56.319'	82.969'	0.25'	...	84.51'	77.26'
	... { Goalundo ...	14th "	8 hours ...	22.10'	...	...	0.20'	...	23.60'	22.30'
Brahmaputra	Gauhati ...	14th "	8 A.M. ...	17.80'	148.76'	166.56'	...	0.10'	171.86'	177.66'
	... { Serajganj ...	14th "	12 hours ...	35.60'	...	...	Steady	...	...	...
	... { Dibrugarh ...	14th "	8 A.M. ...	15.20'	...	...	...	0.10'	...	...
Meghna	Bhairab Bazar	14th "	6 hours	15.42'	1.61'	17.03'	Steady	...	...	...
	... { Chandpur ...	14th "	7.50 "	12.25'	1.61'	13.86'	0.25'	...	...	...
	... { Fenchuganj ...	14th "	7 A.M. ...	22.20'	...	...	...	0.10'	...	...
Dhaleswari	... Sabhar	14th "	7 "	25.80'	-8.62'	17.18'	Steady	...	...	...
Bhagirathi	... Swarupganj ...	14th "	6 "	26.10'	1.509'	27.609'	1.44'	...	28.53'	24.05'
Damodar	... Edilpur	14th "	6 "	15.58'	92.58'	108.16'	0.08'	...	...	...
Lakhya	... Narayanganj ...	14th "	...	21.04'	-5.59'	15.45'	Steady	...	...	...
Madaripur Bil Route	... Takerhat	14th "	6 A.M. ...	12.30'	-0.599'	11.701'	0.10'	...	...	...



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 9th August 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum (a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum (a)	Remarks.
1919.					
3rd August	8 A.M.	Zero of gauge is at mean sea-level.	56.00	53.01	B. M. on College step corrected (P. W. D.) 64.93.
4th "	8 "		55.60	53.01	
5th "	8 "		55.30	52.71	
6th "	8 "		55.40	52.66	
7th "	8 "		55.40	53.11	
8th "	8 "		55.60	53.41	
9th "	8 "		56.00	54.26	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. / 2876 8-30-17, dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

			Old value.	According to P. W. D. datum (a)
The previous year	...	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	...	Lowest "	41.70 on 21st April 1918	36.89
Record	...	Highest "	69.25 on 26th August 1879	64.44
Do.	...	Ditto "	69.08 on 9th September 1885	64.27
Do.	...	Ditto "	68.34 on 26th August 1906	63.47
Do.	...	Ditto "	68.21 on 26th August 1890	63.40
Do.	...	Lowest "	37.63 on 25th April 1884	32.82
Do.	...	Ditto "	38.18 on 14th-15th April 1883	33.32
Do.	...	Ditto "	39.02 on 21st-22nd April 1897	34.21
Do.	...	Ditto "	39.28 on 6th-7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA, S. C. BHATTACHARJI,  
The 9th August 1919. for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 8th August 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
3rd August	7 A.M.	22.5	22.5	21.8	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chaudpore ghât. Its reduced level is 22.41.
4th "	7 "	22.0	22.0	21.4	
5th "	7 "	21.6	21.6	21.2	
6th "	7 "	21.1	21.1	21.3	
7th "	7 "	21.4	21.4	21.3	
8th "	7 "	21.0	21.0	21.2	
9th "	7 "	20.7	20.7	21.4	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest "	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest "	...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	...	Ditto "	...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto "	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto "	...	25.66 on 31st July 1900.
Do.	...	Lowest "	...	1.0 on 8th February 1914.
Do.	...	Ditto "	...	2.42 on 13th March 1908.
Do.	...	Ditto "	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto "	...	8.16 on 9th to 11th March 1885.
Do.	...	Ditto "	...	8.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

FARIDPUR, M. L. MOITRA,  
The 11th August 1919. for Subdivisional Officer, P. W. D., Faridpur



**Statement showing the gauge-readings at Dacca Water-works Station  
on the river Buriganga for the week ending the 9th August 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
3rd Aug.	66.55	...	...	...	...	66.45	Falling.
4th "	66.2	...	...	...	...	66.0	Do.
5th "	65.75	...	...	...	...	65.6	Do.
6th "	65.45	...	...	...	...	65.25	Do.
7th "	65.2	...	...	...	...	65.1	Do.
8th "	65.1	...	...	...	...	65.0	Do.
9th "	64.8	...	...	...	...	64.6	Do.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	...	70.5	} Taken at high tide.
5th September	1909	...	...	...	...	67.86	
10th August	1910	...	...	...	...	69.86	
1st "	1911	...	...	...	...	68.46	
18th "	1912	...	...	...	...	67.16	
31st "	1915	...	...	...	...	69.7	
18th "	1916	...	...	...	...	68.1	
12th "	1917	...	...	...	...	67.1	} Taken at low tide.
31st "	1918	...	...	...	...	69.12	
28rd February	1907	...	...	...	...	51.06	
13th "	1908	...	...	...	...	51.06	
12th March	1912	...	...	...	...	51.06	
7th "	1914	...	...	...	...	50.60	
22nd February	1915	...	...	...	...	50.80	
15th "	1916	...	...	...	...	50.60	
3rd March	1917	...	...	...	...	51.0	
21st February	1918	...	...	...	...	51.40	

DACCA,  
The 13th August 1919.

W. J. KERR,  
Executive Engr., Dacca Division.





# The Calcutta Gazette

WEDNESDAY, AUGUST 27, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## RESOLUTION ON THE RECOMMENDATIONS OF THE PUBLIC SERVICES COMMISSION, REGARDING THE SANITARY DEPARTMENT.

### GOVERNMENT OF BENGAL.

#### MUNICIPAL DEPARTMENT.

##### Sanitation Branch.

CALCUTTA, THE 22ND AUGUST 1919.

RESOLUTION No. 894San.

READ—

The Report of the Royal Commission on the Public Services in India.

THE recommendations of the Public Services Commission made in Chapter XI of Annexure XII, regarding the Sanitary Department, are under the consideration of the Governor in Council, and this Resolution is published in order to give the public an opportunity of expressing their views on the



formation and conditions of service of a public health service and on the question of recruitment for the higher administrative posts of that service.

2. The creation of a well-organized public health service is recognized as being a matter of the first importance. It is for the Imperial Government on the one hand to provide facilities for research into the epidemiology of disease and to place trained scientists who have made a special study of the causation and prevention of particular maladies at the service of the provincial Governments at times of unusual epidemics.

The organization of a public health staff is, on the other hand, a duty which devolves upon the local Governments. It has been pointed out that medical research in its relation to public health has outstripped the means for applying it and that what is required is to strengthen and, above all, to direct and organise the small band of sanitary officers in whose hands the improvement of the public health is placed. The municipal boards of this presidency have already appointed qualified medical officers of health or sanitary inspectors to advise them on the highly specialised problems of public health; a medical officer of health will shortly be added to the staff of each district board.

There will then exist in this Presidency the nucleus of a trained public health service. The appointment and recruitment of this staff on which the future sanitary progress of Bengal will so largely depend, raise three important questions on which the Governor in Council desires to ascertain the views of those interested in problems of public health :—

- (a) the manner of selection and appointment of public health officers;
- (b) their status and conditions of service; and
- (c) the sources of recruitment for the higher administrative posts of the department.

In reference to (a), the Governor in Council has in contemplation the formation of a Bengal Advisory Board of Health, composed entirely of experts and containing a strong Indian element. It is suggested that the selection of candidates for the Department of Public Health might suitably form part of their functions. The question of the status and the conditions of service (b) of public health officers raises an important issue. It has been proposed that there should be in each province a general cadre from which local bodies should, through the medium of the Advisory Board of Public Health, obtain their medical officers of health. It is urged that the best means of securing an efficient public health department is the provincialization of the service. The officers employed by municipalities or district boards would be under the complete executive control of these bodies; their appointment, promotion, suspension or dismissal would rest finally with the Advisory Board of Public Health. The preferences and dislike of local bodies, their award of praise or blame would receive the fullest consideration from the Advisory Board, but the fixity of tenure in his office which is necessary to ensure the independence and activity of a medical officer of health or sanitary inspector can, it is suggested, be only secured by the creation of a provincial cadre, the officers of which will be lent to local bodies, as assistant and sub-assistant surgeons are now deputed to work under dispensary committees.

It is recognized that such a proposal is not in accord with the accepted policy of relaxing outside control over local establishments and (subject to certain safeguards) of allowing local bodies, who pay for a staff, to appoint and dismiss it, but it is urged that in the case of the public health service this policy must yield to the necessity of enabling these officers to discharge their often unpopular duties in a fearless and impartial manner. In the United Kingdom it has been sought to achieve this end by requiring the sanction of the Local Government Board to the dismissal of medical officers of health employed by local bodies, but this control has not proved effective, and in view of the likelihood of a wide extension of a public health organisation



throughout the presidency at an early date, the Governor in Council is led to consider whether it would not be wise to anticipate evils, which have already arisen in England and which, under a similar system, will no doubt arise in India.

3. The higher administrative posts, which the service will possess, will be those of the Sanitary and Deputy Sanitary Commissioners whose designations, it is proposed, might suitably be changed to "Director" and "Assistant Director", Public Health. These posts are at present filled by recruiting (1) members of the Indian Medical Service and (2) qualified private persons who do not belong to that service. The Commission desired that the employment of an Indian agency for the development of the sanitary administration in this country should be encouraged as much as possible. They recommended that facilities should be provided to enable statutory natives of India to obtain a diploma in public health and instruction on tropical hygiene without going to Europe, and the Governor in Council is in complete accord with the Commission in this matter. Courses in public health have already been established which will enable local bodies to obtain trained sanitarians as medical officers of health. It is, however, to be determined what qualifications the Assistant Directors of Public Health should be required to possess, and whether all such posts should be open to men recruited in India, or whether any fixed proportions should be laid down for Indians and non-Indians, or for members of the Indian Medical Service, or persons not belonging to that service.

It is pointed out that the large war reserve, which must be maintained for such a service as the Indian Medical Service, must, for reasons of economy, be largely utilized in civil appointments during times of peace, and it is contended that the administrative experience and training in sanitary work which the officers of this service acquire must form the backbone of the higher administration of public health. On the other hand, it is urged that the Sanitary Department is by no means popular with the Indian Medical Service and that there is no reason why the public health service should not be Indianized from top to bottom, if proper facilities for the study of tropical medicine and of tropical hygiene are provided in India. Some general principle must be enunciated, but it may be convenient to state that principle with such elasticity as to allow the Advisory Board ample latitude in its application.

4. The question of the pay of Indian Medical Service officers in the department of Public Health will depend in the main upon the rates fixed for officers of that service generally.

Whether the present rate of pay for non-Indian Medical Service members, accompanying high administrative posts, is inadequate to attract and retain men of the right stamp is a matter for consideration. It is suggested that in any case the engagement of such officers or at least a five-year agreement, with provident fund benefits, is desirable.

5. It is requested that any suggestions or criticisms which any person or body of persons interested may desire to offer on the above questions may be forwarded to the Secretary to the Government of Bengal, Municipal Department, not later than the 7th September 1919.

By order of the Governor in Council,

S. W. GOODE,

*Offg. Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE BUDGET ESTIMATE OF THE HOWRAH  
BRIDGE, 1919-20.**

**GOVERNMENT OF BENGAL.**

**MARINE DEPARTMENT.**

**Marine Branch.**

CALCUTTA, THE 25TH AUGUST, 1919.

**RESOLUTION—No. 2678 Marine.**

READ—

Letter from the Vice-Chairman, Port Commissioners, Calcutta, No. 11846, dated the 20th February 1919, submitting the Budget Estimate of income and expenditure of the Howrah Bridge for the year 1919-20.

**Receipts.**—The total receipts during the year are estimated at Rs. 3,70,000 as compared with Rs. 3,35,000 the revised estimate for 1918-19. In view of the actual earnings, viz., Rs. 1,00,646 from August to November 1918, from the East Indian Railway traffic to and from Howrah, which is the main source of revenue of the Bridge, the receipts under this head during the year have been placed at Rs. 3,00,000 as against Rs. 2,65,000 during 1918-19.

**Expenditure.**—The total expenditure is estimated at Rs. 3,27,226 as against Rs. 2,64,217 the estimate, and Rs. 2,78,790 the revised estimate, for 1918-19. The increase in expenditure is due to the provision of Rs. 49,000 on account of heavy repairs to the two Bridge steamers *Howrah* and *Buckland*.

The anticipated surplus of Rs. 42,774 will be utilised in reducing the debt of the Bridge to the Port Commissioners, which it is estimated will stand at Rs. 5,29,419 on the 31st March 1920, as against Rs. 5,59,379, on the 31st March 1919.

2. The Governor in Council approves the Budget Estimate under section 21 of the Howrah Bridge Act, 1871.

By order of the Governor in Council,

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*



**REPORT OF THE HONORARY COMMITTEE FOR THE  
MANAGEMENT OF THE ZOOLOGICAL GARDEN, CALCUTTA,  
FOR THE YEAR 1918-19.**

**NOTIFICATION.**

No. 2238 P.D.—*The 19th August 1919.*—The following extracts from the Annual Administration Report of the Zoological Garden, Calcutta, for the year 1918-19 and the Government letter No. 2236 P.D., dated the 19th August 1919, acknowledging the receipt of the Report are published for general information.

J. H. KERR,

*Chief Secy. to the Govt. of Bengal.*

THE Honorary Committee have the honour to submit their report for the year ending 31st March 1919, the contents of which, as usual, include, among other items,—

- (1) The Superintendent's report upon the Zoological collection.
- (2) Monthly returns of visitors and a list of donors and their donations.
- (3) Abstract of accounts of ordinary receipts and expenditure.

The Committee consisted of—

*President :*

The Hon'ble Mr. C. J. Stevenson-Moore, C.V.O. I.C.S.

*Vice-President :*

P. L. Buckland, Esq., F.Z.S.

*Honorary Secretary and Treasurer :*

W. K. Dods, Esq., to 28th February 1919.

W. Dods, Esq., from 1st March 1919.

*Members of the Committee :*

*Nominated—*

R. D. Mehta, Esq., C.I.E.

Dr. Nelson Annandale, B.A., D.Sc., C.M.Z.S.

W. R. Gourlay, Esq., C.I.E., I.C.S.

H. J. McIntosh, Esq.

Nawab Sir Asif Kadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat

Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Lieutenant-Colonel Charles Robert Mortimer Green, M.D., F.R.C.S., I.M.S.

G. Girard, Esq., I.S.O., F.R.H.S.

The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharaja-

adhiraj Bahadur of Burdwan.

Shirley Tremearne, Esq.

David Ezra, Esq.

W. Dods, Esq.

Nawab A. F. M. Abdur Rahman, Khan Bahadur.

Lieutenant-Colonel Sir L. Rogers, Kt., C.I.E., M.D., I.M.S.

Lieutenant-Colonel C. R. Stevens, M.D., I.M.S.

C. W. E. Cotton, Esq., I.C.S.

Lieutenant-Colonel E. H. Brown, I.M.S. (Retired), M.D., D.P.H., F.R.C.S.E.

H. F. Yeoman, Esq.

Babu Surendra Nath Laha.

*Ex-officio—*

The Commissioners of Divisions in Bengal.

The Executive Engineer, 2nd Calcutta Division, Public Works Department.

The Sanitary Commissioner, Bengal.

The President of the Asiatic Society of Bengal.

The Director of Public Instruction, Bengal.

The Natural History Secretary of the Asiatic Society of Bengal.

The Director of Land Records, Bengal.



The Superintendent, Civil Veterinary Department, Bengal.  
 The Professor of Comparative Anatomy and Zoology, Medical College,  
 Bengal.  
 The Superintendent of the Royal Botanic Garden, Sibpur.  
 The Chairman of the Calcutta Corporation.  
 The Principal of the Bengal Veterinary College.

#### PRINCIPAL EVENTS.

The transfer by the Government of Bengal to the Zoological Gardens of a plot of land including a portion of the road known as Duel Avenue and a piece of the compound of the Meteorological office was effected during the year under review. This plot formed an acute-angled wedge between the former area of the Zoological Gardens and the extension. The inclusion has rounded off the boundary and improved the appearance of the Gardens.

Work on the new extension was steadily carried on. The western portion was enclosed with iron-fencing to form a big paddock for the ruminants. On the south a new enclosure was made for the markhors. Within a high fence a crag-like cement structure was built up round the old survey mark, reproducing a mountain peak in miniature and furnishing the inmates with a colourable imitation of their natural habitat.

The boundary wall of the new extension as well as of the Hermitage along the Alipore Road was reconstructed in connection with the realignment of the Alipore Road which was sanctioned by Government.

#### IMPROVEMENTS.

Various improvements were carried out during the year. The brick wall round the Hippopotamus enclosure was further raised as the male hippo tried several times to scale it and seemed likely to succeed.

The Tapir enclosure was found insufficient to accommodate the growing number of these animals, and it was thought expedient to make additions to the existing building. New shelters were therefore constructed on the western side of the building facing the lake and the animals have now ample accommodation.

A new segregation shed was built in the Begunbari compound for the accommodation of sick animals.

#### ANNUAL REPAIRS.

The annual repairs to the buildings of the Garden were carried out departmentally as usual, and a good deal of painting was done during the year to the fences and iron-work.

#### STAFF AND ESTABLISHMENT.

There was no change in the superior staff except in the case of gate clerk, Babu Panchanan Mukherji, who died on 22nd October 1918. Babu Doyal Chandra Dass, retired gate clerk of the Garden, was appointed in his place as a temporary measure. On 1st January 1919 the services of the Superintendent were recognised by Government by the conferment of the title of Rai Bahadur upon him. The personnel consists of—

##### SUPERIOR STAFF.

*Superintendent.*

Mr. Bijay Krishna Basu, G.B.V.C., C.M.Z.S.

*Assistant Superintendent.*

Babu Somnath Ganguli.

*Store-keeper.*

Babu Jugal Kishore Roy.

*Overseer.*

Babu Niranjan Mukerji.



*Clerk.*

Babu Tarak Chandra Chatterji.

*Gate Clerk.*

Babu Doyal Chandra Dass.

**VISITORS.**

The attendance of paying visitors during the year was satisfactory, the turnstile records indicating a total for the year of 635,497, an increase of 52,154 as compared with the figures for 1917-18.

The following is a comparative table of visitors and gate receipts for the last three years :—

Year.		Visitors	Receipts	
			Rs.	A. P.
1916-17	...	671,495	50,024	11 0
1917-18	...	583,343	44,564	0 0
1918-19	...	635,497	48,490	0 0

A large number of children under four years of age and school children in charge of their teachers were admitted free. On the day of the Fancy Fair when no individual charge is levied, it is estimated that about 16,000 visitors entered the Garden. In addition 32,203 persons visited the Garden on free days, of which a list with the number of visitors on each will be found in Appendix C.

Special arrangements were made for the admission without payment of soldiers on leave and convalescent.

**FINANCE.**

The financial condition of the Garden has been on the whole satisfactory, and in spite of the fact that the cost of food-grains has considerably increased the expenditure has been kept down by rigid economy.

**GARDEN.**

The Garden was kept in excellent condition throughout the year. The lawns and paths were in good order and the show of flowers was a special attraction to the visitors.

**CONCLUSION.**

The Committee desire to express their thanks to the Corporation of Calcutta for their continued generosity in remitting the consolidated rates in respect of the Gardens.

The thanks of the Committee are also due to those ladies and gentlemen who have added to the Zoological collection by donations, a list of which is given in Appendix D, as well as to those who kindly offered to present animals to the Garden, but whose offers could not be accepted, either because the particular species of animals was already sufficiently well represented, or owing to want of accommodation.

The Committee in conclusion desire to express their thanks to the Railways and Steamer Companies for the conveyance of animals belonging to the Gardens free of charge.

WILLIAM DODS,  
*Honorary Secretary.*

C. J. STEVENSON-MOORE,  
*President.*

**SUPERINTENDENT'S REPORT.**

I HAVE the honour to submit the following report on the existing condition and the progress of the zoological collection.



The following comparative table shows how the various collections of specimens in the Gardens have stood during the last four years :—

Year.	Mammals.	Birds.	Reptiles.	Year.	Mammals.	Birds.	Reptiles.
1915-16 ...	351	1,940	198	1917-18 ...	316	2,026	199
1916-17 ...	318	1,975	263	1918-19 ...	299	1,944	171

#### ACQUISITIONS.

Among other acquisitions the following deserve special mention :—

1 Hoolock ...	Presented by M. Barnett, Esq.	1 Hippopotamus ...	Born.
1 Wreathed Hornbill ...	Presented by E. H. Turner, Esq.	1 Goral ...	Presented by W. K. Dods, Esq.
2 White-tailed Gnuereza Monkeys.	Purchased.	1 Tiger ...	Presented by the Raja of Khairagarh.
2 Lion Cubs ...	Born.	1 Snow Leopard ...	Purchased.
1 Malabar Langur ...	Presented by F. Thompson, Esq.	1 Great Kangaroo ...	Born.
1 Green Monkey ...	Born.	1 Barasingha Deer ...	Presented by Lady C. Tottenham.
8 Ostriches ...	Purchased.	1 Black Leopard ...	Presented by Haminuddin Hamin, Esq.
2 Brown-antlered Deer ...	Presented by V. H. F. Clarke, Esq.	1 Serow ...	Purchased.
1 Malayan Tapir ...	Born.	1 Black Leopard ...	Presented by Maulvi Habibulla.
		1 Malayan Bear ...	

The following consignment of animals was received from the Taronga Zoological Park Trust, Sydney, on exchange during the year :—

2 King Parrakeets.	2 Yellow-collared Parrakeets.
3 Red-rumped Parrakeets.	3 Rosellas.
3 Pennant's Parrakeets.	8 Cockateels.
14 Black Swans.	

#### GENERAL CONDITION OF THE ANIMALS.

Except for an epidemic amongst the marsupials the general condition of the animals has been satisfactory. The mammals and birds have been free from epidemic disease, and the larger and the smaller carnivora are in prime condition.

The general health of the birds has been very good, and there have been no losses calling for special mention.

#### APPENDIX A.

##### 1.—Comparative statement of Receipts for 1917-18 and 1918-19.

	1917-18.			1918-19.		
	Rs.	A.	P.	Rs.	A.	P.
Opening balance ...	21,161	9	7	19,390	8	11
Interest ...	237	6	6	237	6	6
Donations and subscriptions ...	1,948	0	0	668	0	0
Entrance receipts ...	44,564	0	0	48,490	0	0
Rent ...	5,664	0	0	6,494	0	0
Carriage, rickshaw, elephant ride, etc., etc. ...	975	0	0	1,545	4	0
Fishing ...	210	0	0	240	0	0
Picnic ...	229	0	0	287	0	0
Rhino urine ...	2,303	0	0	2,378	0	0
Miscellaneous receipts ...	4,780	5	0	5,870	5	3
Government contribution ...	20,000	0	0	20,000	0	0
Total ...	1,02,072	5	1	1,05,600	8	8
Add—						
Receipts of 31st March 1917, which were included in 1917-18.	87	5	0	.....		
Receipts of 28th to 31st March, which are included in 1918-19.	.....			799	13	0
Total ...	1,02,159	10	1	1,06,400	5	8
Deduct—						
Receipts from 28th to 31st March 1918, which are included in 1918-19.	799	13	0	.....		
Receipts of 31st March 1919, which will be included in 1919-20.	.....			168	14	0
GRAND TOTAL.	1,01,359	13	1	1,06,231	7	8



*II.—Comparative statement of Expenditure for 1917-18 and 1918-19.*

			1917-18.			1918-19.		
			Rs. A. P.			Rs. A. P.		
Establishment	...	...	8,822	4	0	8,441	3	3
Food of animals	...	...	30,637	14	3	29,784	7	5
Purchase of animals	...	...	6,928	14	0	9,357	14	0
Transport of animals	...	...	451	3	9	2,090	14	9
Miscellaneous contingencies	...	...	8,757	4	7	8,317	3	7
Repairs of roads	...	...	3,232	15	9	1,444	0	3
Do. of buildings	...	...	11,262	2	9	6,141	10	9
Garden construction	...	...	4,876	3	1	4,792	13	6
Original construction	...	...	7,000	6	0	1,462	0	2
Total	...	...	81,969	4	2	71,772	3	8
Closing balance	...	...	19,390	8	11	34,459	4	0
GRAND TOTAL	...	...	1,01,359	13	1	1,06,231	7	8

**APPENDIX B.***Summary of Visitors and Gate Receipts during 1918-19.*

Month and year.			Number of visitors.	Receipts.		Month and year.			Number of visitors.	Receipts.	
				Rs.	A.					Rs.	A.
April	1918	...	39,119	3,052	15	November	1918	...	52,721	4,125	2
May	"	...	37,750	2,958	0	December	"	...	58,280	4,748	5
June	"	...	42,531	3,352	11	January	1919	...	65,651	4,844	5
July	"	...	51,298	3,543	9	February	"	...	59,739	4,679	6
August	"	...	42,813	3,294	3	March	"	...	52,820	4,310	7
September	"	...	48,417	3,635	14						
October	"	...	84,858	5,945	3	Total		...	635,497	48,490	0

**APPENDIX C.***A list of Free days showing free visitors during the year 1918-19.*

15th April	1918	...	...	2,003	25th November	1918	...	...	2,754
27th May	"	...	...	2,641	9th December	"	...	...	2,731
17th June	"	...	...	2,330	13th January	1919	...	...	4,036
22nd July	"	...	...	2,033	10th February	"	...	...	3,346
26th August	"	...	...	2,349	10th March	"	...	...	3,044
23rd September	"	...	...	2,196	Total	...	...	...	32,203
28th October	"	...	...	2,740					

**APPENDIX D.***List of Donors, 1918-19.*

<b>A</b>		<b>Dods, Mr. W. K</b>		...	1 Indian roller, 3
Auddy, Babu Kañdas	...	1 Hyena cub.			Brown-winged kingfishers, 46
Angul, Deputy Commissioner.	...	1 Spotted deer.			Cattle egrets, 19
<b>B</b>					Purple coots, 17
Barnett, Mr. M.	...	1 Hooleck.			Pheasant-tailed jacanas, 9
Barracough, Mr. B.	...	1 Leopard cat.			Chestnut bittorns, 15
Bremner, Mr. W. S.	...	1 Leopard.			Brown-winged jacanas, 3
Burbridge, Mr. H. H.	...	1 Python.			Lesser-whistling teals, 6
Bartlett, Mr. L. H.	...	1 Rock-horned owl.			Yellow bittorns, 18
Brown, Mrs. E. H.	...	1 Flamingo, 4 Bar-headed geese.			Cotton teals, 4
<b>C</b>					Pochards, 4
Chakravarti, Hon'ble Mr.	...	1 Leopard.			Gadwals
<b>B.</b>					3 Common coots
Chunder, Mr. S. C.	...	2 Hog deer.			1 Pin-tailed duck
Chowdhury, Babu Gopal Das.	...	1 Hog deer, 1 Barking deer.			4 Little bittorns, 24
Coch Behar, Prince Victor of	...	1 Tiger cub.			Corn crakes, 37
<b>D</b>					Grebes, 1
Dick, Mrs. L.	...	1 Large Indian squirrel.			Common otter, 2
Dods, Mrs. W. K.	...	1 Common otter.			Marsh cocks, 2
					Indian rails, 4
					Ruddy crakes, 2
					Common teals, 1
					Goral.



<b>E</b>		
Edye, Mr. H. H., I.C.S....	1 Wild dog.	
<b>F</b>		
Fields-Clarke, V. H. T., Mr.	2 Brow-antlered deer.	
<b>G</b>		
Glennie, Mr. C. ....	1 Python..	
Ghosh, Mr. T. P. ....	1 Adjutant.	
Gordon, Mrs. A. D. ....	1 Hanuman, 1 Macaque monkey.	
<b>H</b>		
Heysham, Mrs. L. ....	1 Alexandrine Parakeet.	
Hyde, Mr. J. W. ....	1 Leopard.	
Hanna, Mr. H. B. ....	1 Javan mouse deer.	
Holmes, Mr. B. W. ....	1 Common otter.	
Holtum, Mr. A. K. ....	1 Wild boar.	
Hussain, Mr. Hussainuddin	1 Black leopard.	
Habibullah, Maulavi ...	1 Black leopard, 1 Malayan bear.	
<b>K</b>		
Khairagarh, Raja of ...	1 Tiger.	
<b>L</b>		
Locket, Mr. A. ....	1 Ant-eater.	
Lowman, Mr. F. J. ....	1 Leopard, 1 Himalayan bear.	
Lister, Mr. R. S. ....	1 Leopard cat.	
<b>M</b>		
Maclean, Mr. R. ....	1 Wild dog.	
Marcoolyn, Mr. H. B. ....	1 Black-rumped magpie.	
Mullins, Mr. R. ....	1 Bengal monitor.	
<b>Mawson, Mr. O. ....</b>		1 Malayan bear.
Mukherji, Babu Sashibhusan	1 Spotted deer.	
<b>O</b>		
Oakley, Mr. L. ....	1 Marsh crocodile.	
<b>R</b>		
Roy Chowdhuri, Babu J. K.	1 Crested Eagle.	serpent
Reed, Mr. W. A. ....	1 Nilgai.	
Roosmalecocq, Lt.-Col. C. A.	1 Himalayan bear.	
<b>S</b>		
Solomon, Mrs. S. J. ....	1 Hog deer.	
Seth, Babu Kanilal ...	1 Indian antelope.	
Sen, Babu Anath Nath ...	1 Four-horned Antelope.	
Seraikella, Fendatory Chief of	2 Ant-eaters.	
Shaw, Babu Charan Behari	1 Spotted deer	
Stevens, Mr. H. H. ....	1 Palm civet.	
Swan, Miss D. M. C. ....	1 Indian porcupine.	
Stewart, Mr. D. M. ....	1 Wolf cub.	
<b>T</b>		
Taylor, Mr. R. W. ....	1 Fishing cat.	
Turner, Mr. E. H. ....	1 Wreathed hornbill.	
Thompson, Mr. ....	1 Snake-eating cobra	
Thompson, Mr. F. ....	1 Malabar langur.	
Tottenham, Lady C. I. ...	1 Barasingha deer.	
<b>W</b>		
Whitworth, Mr. R. ....	1 Indian antelope.	

No. 2236P.D., dated Calcutta, the 19th August 1919.

From—The Hon'ble Mr. J. H. KERR, C.S.I., C.I.E., I.C.S., Chief Secretary to the Government of Bengal.

To—The Honorary Secretary, Zoological Garden, Calcutta.

I AM directed to acknowledge the receipt of the Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1918-19, forwarded with your letter No. 57, dated the 1st August 1919, and to convey the thanks of the Governor in Council to the Committee for their management of the Garden during the year.

2. The acknowledgments of His Excellency in Council are due to the ladies and gentlemen named in Appendix D to the Report, who presented the Garden with various animals during the year.



**REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR  
THE WEEK ENDING 16TH AUGUST 1919.**

THE rainfall during the week was general and sufficient. Transplantation is still going on. The distress is decreasing owing to improvement of the agricultural prospects. Fifty-seven relief works were open during the week. The number of persons relieved on works was 3,830. The number of persons in receipt of gratuitous relief was 18,402, viz., 13,254 on cash doles in 128 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The grand total of persons relieved was 22,232. The decrease in the number of persons in receipt of cash doles was due to better agricultural prospects and the harvesting of the early *bhadoi* crops. The number of persons relieved on private works was 300. The charitable societies also relieved 950 persons on weekly rice doles and 1,150 on daily rice doles and by cooked food. The position in regard to crime relating to food-grains was unchanged. Public health is generally good. Sporadic cases of cholera and malaria are reported. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5½ to 5¾ seers per rupee. Burma rice is being sold.

M. C. MCALPIN,

*Secy. to the Govt. of Bengal.*

RAMNA (Dacca), the 20th August 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 21st August 1919.

**Summary.**—During the week rainfall was generally light to moderate throughout the province. Harvesting of autumn paddy and jute are progressing. Transplanting of winter paddy and steeping and washing of jute are hampered in North and East Bengal for want of sufficient rainfall. Weeding of winter paddy has commenced in West Bengal. Slight damage to jute by insect pests continues to be reported from some West Bengal districts. The prospects of standing crops are generally satisfactory. The price of common rice for the province has risen by about  $3\frac{1}{4}$  per cent. as compared with that of previous week. The average number of persons engaged daily in test works in Brahmanbaria subdivision of Tippera district was 452.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKHS. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	2.33	5½	5½	Transplanting of <i>aman</i> paddy continues in some low lands of Diamond Harbour and Sadar subdivisions. Water is too deep to allow transplantation. <i>Aus</i> paddy is being harvested. Condition and prospects of jute are good. Damage by insects is reported from some places in Basirhat and Barasat subdivisions. The effects of weather are good. Harvesting of jute is progressing in the Barasat and Basirhat subdivisions. Fodder and water are sufficient.
	Diamond Harbour.	(n)	(n)	5½	
	Barrackpore	(n)	(n)	(n)	
	Barasat ...	6.85	5½	5½	
	Basirhat ...	5.80	5½	5½	
2	NADIA ...	2.91	5½	5½	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy and jute continues. Effects of weather are favourable. Some damage to jute has been done by insect-pests. Transplanting of <i>aman</i> paddy continues.
	Kushtia ...	9.89	5	5	
	Meherpur ...	4.33	5½	5½	
	Chuadanga ...	1.49	5	5	
	Ranaghat ...	2.48	5½	5½	
3	MURSHIDABAD	2.10	5	4½	Weather cloudy with occasional rains. Prospects of standing crops are good. Harvesting of <i>aus</i> paddy continues. Transplanting and weeding of <i>aman</i> paddy continue. Condition and prospects of jute are good. Effects of weather are favourable to its growth. Some damage is apprehended by flood in Jangipur subdivision. Harvesting continues. Cattle-disease is reported from Kandi and Khargram thanas. Fodder is sufficient. No large import or export. Agricultural loans and gratuitous relief are being given for distress in some parts of the district.
	Lalbagh ...	3.29	5	5	
	Jangipur ...	1.45	4½	4½	
	Kandi ...	1.41	5 to 6½	4½	
4	JESSORE ...	3.63	5	5	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy continue. Standing crops are doing well. Condition and prospects of jute are fair. Washing has commenced. Cutting and steeping continue. Fodder is sufficient.
	Jhenidah ...	2.06	5½	5½	
	Magura ...	0.87	5	5	
	Narail ...	1.52	5	5	
	Bangaon ...	2.57	5	5	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKINS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
5	KHULNA ...	Inches 7.73	4½	4½ <sup>0</sup> / <sub>6</sub>	Transplantation of <i>aman</i> paddy is going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Harvesting is going on. Cattle disease is reported from Kaliganj and Protapnagar police-stations. Fodder is being damaged in some places on account of heavy rain. Water is sufficient.
	Satkhira ...	1.90	5	5½ <sup>0</sup> / <sub>6</sub>	
	Bagerhat ...	5.90	4½	4½	
6	BURDWAN ...	2.53	5	5	Weather hot and cloudy. Transplanting and weeding of <i>aman</i> paddy are progressing. <i>Aus</i> paddy and sugarcane are doing well. Harvesting of jute continues. Stocks of food-grains in Asansol are reported insufficient. Cattle-disease is reported from Galsi and Sahebganj.
	Asansol ...	1.56	5	5	
	Katwa ...	1.38	5½	5½	
	Kalna ...	3.41	4½	5	
7	BIRBHUM ...	1.95	5	5	Transplantation continues. Prospects of standing crops are favourable. Fodder and water are sufficient.
	Rampurhat ...	2.18	4½	4½	
8	BANKURA ...	3.57	5½	5½	Transplantation of paddy still continues in high lands. Prospects of standing crops are good. Export of rice and paddy continues.
	Visnupur ...	2.18	5½	5½	
9	MIDNAPORE	1.17	5½	5½	Transplantation of winter rice continues. Harvesting of jute continues. Condition is good. Cattle-disease is reported from contai.
	Ghatal ...	4.86	5½ <sup>0</sup> / <sub>6</sub>	5½	
	Tamluk ...	1.19	6	6	
	Contai ...	0.87	5½	6½	
10	HOOGLY ...	2.48	4½ <sup>0</sup> / <sub>6</sub>	4½ <sup>0</sup> / <sub>6</sub>	Effects of weather on the growth of the crops are favourable. Price of rice is rising. Condition and prospects of jute are good. Harvesting is going on. Damage by insect-pests is reported from Sadar and Serampore subdivisions. Fodder is sufficient.
	Serampore ...	3.16	5½ <sup>0</sup> / <sub>6</sub>	5½ <sup>0</sup> / <sub>6</sub>	
	Arambagh ...	3.38	5½	5½	
11	HOWRAH ...	2.69	5	5	Weather rainy. Condition of sugarcane is good. Transplantation of <i>aman</i> paddy continues. Condition of jute is good. Slight damage by insects has been done in Singti and Amta thanas. Harvesting of jute continues in low lands. Fodder is sufficient.
	Ulubaria ...	2.11	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	4.34	4½	4½	The prospects of jute and other standing crops are favourable. Harvesting of jute and <i>aus</i> paddy continues. Fodder is sufficient.
	Naogaon ...	2.76	4½	4½	
	Nator ...	2.56	4½	4½	
13	DINAJPUR ...	1.96	4½	5½	Harvesting of jute and other <i>bhadoi</i> crops continues. More rain is wanted for steeping of jute and for transplantation of <i>aman</i> paddy. Fodder is sufficient. Rice market is rising.
	Thakurgaon ...	2.69	5	5½	
	Balurghat ...	1.62	4½	4½	



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER MUPK.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
14	JALPAIGURI	2·84	5	5	Weather hot. Harvesting of jute and transplanting of winter rice are hampered owing to insufficient rainfall.
	Alipur ...	4·90	4½	5	
15	DARJEELING	1·81	4½	4½	Harvesting of potatoes and maize continues. Standing crops are growing well. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Cutting and steeping of jute have begun. Transplanting of autumn paddy is retarded owing to drought in Terai. Winter paddy is being transplanted. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	3·45	4½	4½	
	Siliguri ...	3·87	4	4	
	Kulinpong ...	(n)	(n)	5½	
16	RANGPUR ...	0·83	4½	4½	Weather hot. Cutting of jute and harvesting of <i>aus</i> paddy continue. The condition and prospects of jute are good. More rain is urgently wanted for transplanting of winter rice and steeping and washing of jute. Weather is not favourable for winter rice. Fodder and water are sufficient. Cattle-disease is subsiding at Domar and Saidpur.
	Nilphamari	0·39	4½	4½	
	Kurigram ...	0·55	4½	4½	
	Gaibandha ...	0·22	4½	4½	
17	BOGRA ...	3·17	4½	4½	Harvesting of <i>aus</i> paddy and jute and transplanting of winter paddy continue. Progress of steeping and washing of jute is retarded for low flood. Prospects of jute are otherwise fair.
18	PABNA ...	5·23	5	5	<i>Aus</i> paddy has been harvested. Harvesting and steeping of jute continue in Sadar subdivision. Reaping of jute has been stopped in Sirajganj subdivision temporarily for want of water. Supply of fodder is tolerable.
	Sirajganj ..	4·82	4	4½	
19	MALDA ..	7·13	5	5	Weather hot and cloudy. Rain is wanted in Kharba thana for steeping of jute and transplanting of winter rice. Prospects of jute are fair. No damage to crop is reported. Harvesting of <i>bhudo</i> paddy continues. Fodder and water are sufficient. Cattle-disease is reported from Bholahat and Englishbazar thanas.

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
20	COOCH BEHAR	2.33	(n)	6½	Weather hot and cloudy. Preparation of lands for <i>haimanti</i> paddy going on and transplantation of its seedlings is retarded for want of rain. Effects of weather on the growth of jute are good. Cutting and steeping are going on. Fodder is sufficient.
21	DACCA ...	2.58	4	4½	Weather seasonable. Condition and prospects of standing crops are good. Steeping and stripping of jute are being retarded by the lowness of the rivers.
	Manikganj ...	2.42	4	4½	
	Narayanganj	4.60	4	4½	
	Munshiganj*	(n)	(n)	4½	
22	MYMENSINGH	4.74	3½	4	Weather hot with occasional showers. More rain is badly wanted. Transplanting of winter paddy and steeping of jute are impeded for want of water. Harvesting of jute and <i>aus</i> paddy continue. Prospects are fair. Fodder is sufficient, but insufficiency of water is feared.
	Jamalpur ...	1.92	4	4½	
	Tangail ...	1.09	4½	4½	
	Netrakona ...	4.50	3½	4	
	Kishorganj...	2.59	4	5½	
23	FARIDPUR ...	3.11	4½	4½	Weather is favourable to the standing crops. Harvesting of <i>aus</i> paddy is finished and that of jute continues. Prospects are fair. Insufficiency of fodder is reported from Gopalganj.
	Goalundo ...	2.87	5½	5	
	Madaripur ...	3.04	4½	4½	
	Gopalganj†...	2.45	4½	5	
24	BAKARGANJ (BARISAL).	3.78	{ 4½ 5½†	{ 4½ 6½†	Prospects of jute are good and those of other crops fair. Weather is favourable to jute. No damage done to the crop. Harvesting is nearly finished. Fodder is sufficient.
	Pirojpur ...	3.66	4½	4½	
	Patuakhali...	8.66	{ 4½ 5½	{ 4½ 5½	
	Dakshin Shahazpur (Bhola).	(n)	(n)	4½	
25	CHITTAGONG	4.23	4½	5	Prospects of standing crops are good. Cultivation of <i>aman</i> paddy is going on. Harvesting of <i>aus</i> crop is progressing. <i>Panga</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
	Cox's Bazar	6.32	4½	4½	
26	TIPPERA (COMILLA).	2.76	4	4½	The prospects of <i>aus</i> paddy are fair and those of jute are good. Harvesting of jute and <i>aus</i> paddy and transplanting of <i>aman</i> paddy are going on. Rain is badly needed. Steeping of jute and growth of <i>barshall</i> paddy are hampered for want of water in Brahmanbaria subdivision: 413 men and 39 children worked daily on an average for eradicating water hyacinth in Brahmanbaria subdivision.
	Brahmanbaria.	2.58	3½	4½	
	Chandpur ...	3.87	4½	4½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ *Aus* rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, &c.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
27	NOAKHALI ...	5.31	4½	4½	Weather seasonable. Prospects of standing crops are good. Transplantation of <i>aman</i> paddy and harvesting of jute continue. Fodder sufficient.
	Feni ...	3.02	{ 3½ 4½	{ 4½ 5½	
28	CHITTAGONG HILL TRACTS.	3.27	5	5	Prospects of <i>jhum</i> crops are good. Progress of plough cultivation is fair. Fodder is sufficient.

\* *Annas* rice.

J. C. ROY,  
for Director of Agriculture, Bengal.

Dacca, the 25th August 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of August 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	8 0 0	5 0 0	4 4 0	4 10 0	4 8 0
Chetla Hat ...	.....	.....	.....	.....	.....	.....	.....
Burdwan ...	8 0 0	8 8 0	4 14 0	5 12 0	5 8 0	6 0 0	.....
Kalna ...	.....	.....	.....	.....	.....	.....	.....
Raniganj ...	.....	.....	.....	.....	.....	.....	.....
Midnapore ...	8 12 0 to 9 0 0	8 12 0 to 9 0 0	5 8 0	5 8 0	5 8 0	6 0 0	.....
Chittagong ...	.....	.....	.....	.....	.....	.....	.....
Chandpur ...	.....	.....	.....	.....	.....	.....	.....
Dacca ...	.....	.....	.....	.....	.....	.....	4 12 0
Narayaganj ...	.....	.....	.....	.....	.....	.....	.....
Mymensingh ...	.....	.....	.....	.....	.....	.....	.....
Madaripur ...	.....	.....	.....	.....	.....	.....	.....
Pabna ...	(a)	(a)	.....	4 0 0	.....	.....	4 0 0
Hirajganj ...	.....	.....	.....	.....	.....	.....	.....
Rangpur ...	.....	.....	5 4 0	5 0 0	5 0 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 8 0	9 0 0	6 0 0	5 0 0	5 6 0	5 10 0	.....
Chetla Hat ...	.....	.....	.....	.....	.....	.....	.....
Burdwan ...	9 0 0 to 11 8 0	9 0 0 to 11 8 0	6 4 0	5 8 0	5 8 0	6 0 0	.....
Kalna ...	.....	.....	.....	.....	.....	.....	.....
Raniganj ...	.....	.....	.....	.....	.....	.....	.....
Midnapore ...	10 0 0 to 11 0 0	10 0 0 to 11 0 0	7 8 0	5 12 0	4 8 0	5 0 0	.....
Chittagong ...	.....	.....	.....	.....	.....	.....	.....
Chandpur ...	.....	.....	.....	.....	.....	.....	.....
Dacca ...	.....	.....	.....	.....	.....	.....	.....
Narayaganj ...	.....	.....	.....	.....	.....	.....	.....
Mymensingh ...	.....	.....	.....	.....	.....	.....	.....
Madaripur ...	.....	.....	.....	.....	.....	.....	.....
Pabna ...	.....	.....	.....	.....	.....	.....	.....
Hirajganj ...	.....	.....	.....	.....	.....	.....	.....
Rangpur ...	10 0 0	10 0 0	6 8 0	7 0 0	7 0 0	6 4 0	.....

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of August 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	46	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 0 0	7 0 0	4 0 0	3 8 0	2 7 0	3 8 0	4 0 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 0 0	7 2 0	3 12 0 to 4 0 0	3 10 0	3 14 0	4 0 0	4 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 10 0 to 8 0 0	7 10 0 to 8 0 0	4 2 0 to 4 6 0	3 12 0	4 4 0	4 8 0	...
Chittagong ...	8 0 0	7 8 0	4 0 0	3 8 0	4 4 0	5 0 0	...
Chaudpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Shrajangaj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	5 4 0	6 8 0	7 8 0	6 8 0	...

Marts.	ANJAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	10 8 0	11 0 0	6 0 0	4 8 0	5 4 0	6 4 0	5 8 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	12 0 0	12 8 0	7 12 0	4 8 0	5 0 0	5 10 0	5 11 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 4 0 to 12 4 0	11 8 0 to 12 8 0	6 0 0 to 7 0 0	5 0 0 to 6 8 0	5 4 0 to 6 8 0	6 0 0	...
Chittagong ...	14 0 0	10 8 0	6 8 0	6 8 0	6 8 0	7 0 0	7 0 0
Chaudpur ...	...	...	...	...	...	...	...
Dacca ...	12 0 0	11 8 0	...	6 4 0	7 0 0	6 1 0	7 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	10 0 0	10 0 0	6 8 0	6 0 0	7 4 0	6 8 0	6 10 0
Shrajangaj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	6 0 0	7 0 0	7 0 0	6 8 0	6 4 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of August 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	2 12 0	2 0 0	3 6 0	3 6 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 0 0	4 0 0	2 3 0	2 4 0	3 14 0	3 3 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 0 0	4 0 0	2 1 0	2 6 0	3 0 0	3 3 0	...
Chittagong ...	(c)	(c)	(c)	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 3 0	5 4 0	2 4 0	3 4 0	3 4 0	4 0 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 8 0	4 8 0	2 2 0	2 12 0	3 6 0	3 4 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	5 0 0	1 12 0	2 14 0	3 6 0	3 4 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 3 0	2 3 0	3 2 0	3 0 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 0 0	4 0 0	1 15 0	2 2 0	3 10 0	3 2 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	3 14 0	3 14 0	1 14 0	2 0 0	2 12 0	3 2 0	...
Chittagong ...	(c)	(c)	(c)	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 4 0	5 0 0	2 2 0	3 12 0	3 2 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 0 0	4 6 0	1 13 0	2 3 0	3 1 0	3 0 0	3 10 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	4 8 0	4 8 0	1 3 0	2 3 0	3 10 0	2 4 0	3 0 0

(c) None.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of August 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	6 8 0	7 0 0	7 12 0	7 8 0	7 12 0
Chetta Hât ...	...	...	...	...	...	...	...
Burdwan ...	9 0 0	8 8 0	6 8 0	6 4 0	9 8 0	7 8 0	8 8 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 8 0	4 2 0	5 0 0	6 4 0	6 8 0	5 10 0
Chittagong ...	12 0 0	10 8 0	8 0 0	7 8 0	8 0 0	10 0 0	7 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 12 0	9 0 0	4 12 0	5 10 0	6 4 0	6 12 0	6 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 0 0	8 11 0	6 0 0	7 8 0	7 8 0	8 0 0	7 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 8 0	10 8 0	5 4 0	6 4 0	6 12 0	7 9 0	8 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	5 0 0	6 0 0	6 8 0	6 4 0
Chetta Hât ...	...	...	...	...	...	...	...
Burdwan ...	8 4 0	8 0 0	3 7 0	4 0 0	5 0 0	5 0 0	5 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 8 0	7 4 0	3 10 0	4 4 0	5 8 0	6 12 0	4 12 0
Chittagong ...	8 0 0	7 8 0	4 0 0	4 8 0	5 4 0	5 0 0	5 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 8 0	8 8 0	4 8 0	5 4 0	5 12 0	5 10 0	5 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	8 10 0	7 12 0	3 10 0	4 10 0	5 3 0	5 10 0	5 10 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	9 8 0	9 8 0	3 12 0	4 12 0	5 12 0	6 0 0	6 12 0



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of August 1919.**

Marts.	LINSKED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	58	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	13 8 0	13 8 0	6 0 0	11 8 0	11 8 0	6 8 0	7 12 0	7 12 0	5 0 0	25 0 0	25 0 0	40 0 0
Chetla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bardwan	(a).....	(a).....	6 8 0	13 8 0 to 16 8 0	13 0 0 to 16 0 0	6 12 0 to 7 8 0	8 8 0	8 8 0	6 0 0 to 9 0 0	(a).....	(a).....	36 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baliganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	16 0 0	16 0 0	4 10 0	15 0 0 to 17 8 0	15 0 0 to 16 8 0	7 4 0 to 8 0 0	8 8 0 to 9 0 0	8 0 0 to 8 8 0	8 4 0	40 0 0	40 0 0	40 0 0
Chittagong	10 0 0	12 0 0	10 0 0	14 0 0	12 0 0	7 0 0	10 12 0	13 8 0	5 8 0	16 0 0	15 0 0	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	12 0 0	12 0 0	5 4 0	12 8 0	12 0 0	5 0 0	11 8 0	11 8 0	7 8 0	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palna	(a)	(a)	.....	14 0 0	12 8 0	5 10 0	16 0 0	16 0 0	7 4 0	.....	.....	.....
Srirampur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raipur	.....	.....	.....	14 8 0	14 4 0	5 8 0	15 0 0	15 0 0	6 8 0	.....	.....	.....

Marts.	JUTE.			GHEK.			HIDES (GOV).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 0 0	78 0 0	78 0 0	70 0 0	450 0 0	450 0 0	450 0 0
Chetla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bardwan	(a).....	(a).....	6 12 0	75 0 0	76 0 0	66 0 0	(a).....	(a).....	40 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baliganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	7 0 0	7 0 0	5 0 0	80 0 0 to 86 0 0	80 0 0 to 86 0 0	66 0 0 to 68 0 0	425 0 0	425 0 0	200 0 0
Chittagong	.....	.....	.....	84 0 0	95 0 0	68 0 0	400 0 0	400 0 0	175 0 0
Chandpur	9 0 0 to 14 8 0	12 8 0 to 15 0 0	7 8 0 to 8 12 0	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	78 8 0	78 8 0	63 0 0	.....	.....	.....
Narayanganj	12 0 0 to 16 0 0	13 0 0 to 16 0 0	5 4 0 to 6 0 0	.....	.....	.....	.....	.....	.....
Mymensingh	9 0 0 to 10 0 0	14 0 0 to 16 0 0	6 0 0 to 8 0 0	.....	.....	.....	.....	.....	.....
Madaripur	10 0 0 to 13 8 0	10 0 0 to 15 0 0	7 12 0 to 8 4 0	.....	.....	.....	.....	.....	.....
Palna	.....	.....	.....	79 0 0	78 0 0	83 0 0	.....	.....	.....
Srirampur	11 0 0 to 15 0 0	8 0 0 to 12 0 0	4 8 0 to 6 8 0	.....	.....	.....	.....	.....	.....
Raipur	12 8 0	12 8 0	5 0 0	72 0 0	72 0 0	60 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of August 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	8 0 0	30 0 0	3 6 0	3 4 0	3 2 0	4 0 0 (a)	4 0 0 (a)	2 11 0
Chetla Hat									
Burdwan	15 0 0	14 8 0	20 0 0 to 32 0 0	2 14 0	2 14 0	2 14 0	3 2 0 (b)	3 2 0 (b)	4 1 3
Kalna									
Raniganj									
Midnapore	3 0 0 to 14 0 0	3 0 0 to 14 0 0	3 0 0 to 23 0 0	3 10 0	3 0 0	4 0 0	4 0 0 (b)	4 0 0 (b)	4 3 0
Chittagong	16 0 0	20 0 0	30 0 0	3 10 0	3 6 0	3 10 0	3 0 0	3 0 0 (c)	2 6 0
Chandpur									
Dacca				4 0 0	2 12 0	4 3 0	4 1 0 (d)	4 1 0 (d)	4 12 0
Narayanganj									
Mymensingh									
Maderipur									
Fabna	20 0 0 to 25 0 0	20 0 0 to 25 0 0	26 8 0	3 12 0	3 12 0	4 10 0	3 12 0	3 0 0 (A)	3 4 0
Birajganj									
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 6 0	4 4 0 (A)	4 6 0 (A)	4 4 0

(a) Monkey brand. | (b) Rising Sun. | (c) Elephant. | (d) Mosque mark. | (A) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	20 0 0	0 8 0	0 8 0	0 14 0			
Chetla Hat							0 8 0	0 8 0	0 8 0
Burdwan	37 0 0	37 0 0	19 8 0	0 8 0	0 8 0	0 9 0	0 7 0	0 7 0	0 8 0
Kalna							to 0 8 0	0 9 0	0 8 0
Raniganj (n)							0 8 0	0 1 10	0 2 0
Midnapore	38 0 0 to 39 0 0	38 0 0 to 39 0 0	22 8 0 to 24 0 0	0 7 0	0 7 0	0 7 0			
Chittagong	45 0 0	38 0 0	23 0 0						
Chandpur									
Dacca	42 0 0	40 0 0	22 8 0						
Narayanganj									
Mymensingh									
Maderipur									
Fabna	36 0 0	36 0 0	20 0 0						
Birajganj									
Rangpur	40 0 0	40 0 0	23 0 0						

(n) Return not received.

DACCA,  
The 23rd August 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of August 1919.**

		QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.															
DIVISION.	Number.	DISTRICTS AND PARTS.	COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURH. CADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
PRESIDENCY.		34-PARGANAH.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
	1	Chotla Hât ... ..	4 9	4 9	8 10	8 8	8 8	9 2	4 0	4 0	8 8	3 9	4 0	7 0	10 10	10 10	9 2
	2	Magra Hât ... ..	5 10	5 10	9 11	6 12	6 12	10 5	(a)	(a)	8 0	3 8	3 8	6 10	11 8	11 8	11 1
	3	Calcutta-Bellaghata	8 3	8 3	8 6	6 0	6 0	10 0	4 7	4 4	6 7	3 10	3 8	8 7	10 0	10 0	10 10
		NADIA.															
	4	Goari ... ..	5 4	5 4	10 8	5 10	5 12	10 9	3 5	3 5	5 5	3 3	3 3	6 8	11 0	11 0	12 8
	5	Ranaghat ... ..	4 12	5 2	10 0	5 2	5 10	10 8	4 0	4 0	6 8	3 8	4 0	6 0	10 8	10 8	10 8
		MUNSHIDABAD.															
	6	Berhampur ... ..	4 8	4 12	9 12	4 12	5 0	10 0	3 4	3 4	6 0	4 0	4 0	8 0	13 0	13 0	11 0
	7	Kandi ... ..	5 0	5 0	12 8	5 4	5 7	13 0	3 8	5 4	6 0	4 0	4 4	8 0	11 0	11 0	11 0
	8	Jangipur ... ..	5 0	4 8	12 12	5 0	4 12	13 4	3 8	3 8	6 0	4 0	4 0	9 0	12 0	12 0	10 0
		JENBONE.															
	9	Sadar ... ..	5 6	5 4	10 0	5 11	5 0	12 0	3 8	3 4	6 8	3 8	3 4	6 0	11 4	11 4	9 8
	10	Bangaon ... ..	5 0	5 8	12 5	5 11	6 2	14 8	2 11	2 11	4 9	3 3	3 9	6 6	11 4	11 4	10 8
		KHULNA.															
	11	Sadar ... ..	4 8	5 10	12 0	4 9	6 0	13 0	3 12	4 0	6 8	3 0	3 4	6 8	10 8	10 0	9 0
	12	Bagerhat ... ..	4 8	5 8	12 0	5 8	6 0	14 8	5 0	5 0	8 8	4 14	4 14	5 8	10 8	10 8	9 0
		BURDWAN.															
	13	Sadar ... ..	4 8	5 0	10 8	5 0	5 4	12 8	3 8	3 8	6 8	3 0	3 0	8 0	13 0	12 0	9 0
	14	Kalna ... ..	4 12	5 2	10 0	5 4	5 4	10 8	3 7	3 7	5 10	3 5	3 5	6 6	13 5	13 5	12 12
		BIRBHUM.															
	15	Suri ... ..	4 12	5 0	10 0	5 0	5 4	11 0	4 0	4 0	6 0	3 3	3 4	6 12	10 0	10 0	10 8
	16	Rampur Hât ... ..	4 12	4 12	10 0	5 0	5 0	11 0	3 8	3 8	5 4	3 0	3 0	6 0	11 0	11 0	12 0
		BANKURA.															
	17	Sadar ... ..	5 8	5 0	9 0	5 10	5 8	10 0	4 0	4 0	7 8	3 4	3 4	6 8	13 0	11 0	10 0
	18	Vishnupur ... ..	5 5	5 6	11 0	5 10	5 10	11 8	3 10	4 4	7 8	3 2	3 8	6 4	10 0	10 0	9 0
		MIDNAPORE.															
	19	Sadar ... ..	5 6	5 8	11 1	5 8	5 12	11 6	3 4	3 4	5 4	3 4	3 4	{ 5 4 5 0 }	10 0	10 0	9 0
	20	Contai ... ..	6 0	6 8	13 8	6 8	6 12	15 0	3 0	3 0	7 0	3 0	3 0	7 0	10 0	9 0	8 0
		HOOGHLY.															
	21	Sadar ... ..	4 9	4 12	8 0	5 0	5 4	8 0	3 8	4 0	6 8	4 0	4 0	6 8	10 8	11 0	9 0
	22	Arumbagh ... ..	5 12	6 0	11 6	5 14	6 2	12 8	3 4	3 4	5 4	3 0	3 0	5 4	10 10	10 10	9 0
		HOWRAH.															
	23	Sadar ... ..	5 0	5 0	10 8	5 5	5 10	11 0	4 0	4 0	6 12	4 0	3 8	6 8	11 0	11 0	9 0
	24	Ulubaria ... ..	5 0	5 4	9 0	5 8	5 12	10 0	3 8	3 8	6 0	3 8	3 6	6 4	11 8	11 8	10 8
		RAJSHAHI.															
RAJSHAHI.	25	Rampur-Boalia ... ..	4 6	4 10	10 8	4 9	4 12	12 8	3 0	3 6	5 4	3 0	3 6	6 0	9 12	9 12	9 12
	26	Nator ... ..	4 8	4 8	11 4	4 12	4 12	15 0	4 0	4 0	6 0	4 0	4 0	7 14	9 8	8 0	8 0
	27	Dinajpur—Railway Bazar Hât.	4 12	5 2	10 2	5 2	5 6	11 6	3 14	3 14	6 9	3 5	3 8	9 0	10 12	9 0	8 5
	28	Jaipalguri—Sadar ...	5 8	5 8	9 0	5 12	6 0	11 8	4 0	4 0	7 0	4 0	4 0	7 0	9 0	9 0	8 0

• Karkatoh.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of August 1919—conold.**

DIVISION.	NUMBER.	DISTRICTS AND MANIS.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURR. CADJAN PRA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
RAJSHAHI.	29	DANESHKUNO.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
			3 8	3 12	3 0	5 0	10 0	3 0	3 0	6 8	3 12	3 12	5 8	8 0	3 0	7 0	7 0
	30	Bilgrami	4 0	4 8	3 0	5 0	5 8	11 0	3 8	3 8	7 8	3 5	3 8	8 8	8 0	6 0	5 0
	31	BAROPOUR.	3 8	3 8	10 0	4 0	4 0	11 0	3 12	3 12	6 0	3 0	(n)	7 0	9 0	9 0	8 0
			5 0	5 0	11 0	(n)	(n)	11 8	3 0	3 4	8 0	3 0	3 0	8 0	10 0	9 0	8 8
			4 2	4 8	7 8	4 8	5 1	10 12	3 8	4 0	7 8	3 6	3 7	6 12	9 12	9 12	8 0
			4 8	4 8	11 0	4 8	4 14	12 8	4 0	4 0	10 0	3 14	3 14	6 0	10 8	10 8	8 0
	36	Hirajpur	4 0	4 0	9 12	4 8	4 8	11 0	4 8	4 8	7 4	3 12	3 12	7 8	8 0	8 0	8 0
	37	MADDA.	4 10	4 8	10 0	5 0	5 0	11 8	4 0	4 8	5 0	3 8	3 0	7 0	11 0	10 8	8 0
			4 10	5 0	12 8	5 0	5 3	12 8	4 8	4 12	6 8	3 8	4 0	9 0	11 0	11 0	9 0
	38	Dacca.	3 12	4 8	9 6	4 0	4 11	11 0	4 5	4 6	5 4	3 3	3 3	6 0	10 8	10 10	8 0
			4 4	4 12	10 8	4 4	4 12	10 8	(n)	(n)	(n)	(n)	(n)	...	9 0	9 0	8 0
Dacca.	40	MYMENSINGH.	4 0	4 8	10 2	5 0	5 0	10 2	4 0	4 0	8 0	4 0	4 0	8 0	9 0	8 0	8 0
			4 0	4 0	10 8	4 4	4 8	11 0	5 12	5 12	9 0	3 2	3 2	7 0	10 0	10 0	8 0
	42	FARIDPUR.	4 14	4 4	12 0	5 0	4 12	12 4	4 2	4 0	5 4	3 12	4 0	6 0	10 0	9 0	8 0
			4 12	4 9	11 4	5 5	5 1	12 0	3 11	4 6	6 0	3 11	3 11	6 0	8 8	8 8	8 0
	44	BAKARGANJ.	4 10	4 12	5 12	5 4	5 8	9 8	5 10	5 10	8 0	3 2	3 4	6 0	9 4	9 4	8 8
			4 6	5 0	10 8	4 8	5 4	10 8	4 8	4 8	7 0	(n)	(n)	5 0	8 0	8 0	8 0
	46	TIPPERA.	3 14	4 0	9 11	5 0	4 1	10 4	5 0	5 0	5 4	3 0	3 0	6 8	10 0	10 0	8 8
			4 8	4 8	10 0	5 12	5 0	11 4	4 4	4 4	5 11	3 14	3 14	7 10	10 4	10 4	9 1
	48	NOAKHALI.	4 11	4 8	9 0	4 14	4 12	10 0	4 4	4 4	8 8	4 0	4 0	6 2	9 0	9 0	9 0
			4 8	4 5	10 8	5 8	5 8	12 0	6 9	6 9	5 0	(n)	(n)	...	8 0	10 11	9 0
CHITTAGONG.	50	CHITTAGONG.	5 0	5 8	10 0	5 8	5 8	11 0	4 0	4 0	7 0	2 12	3 12	6 8	10 0	11 0	10 0
			4 12	6 0	12 8	(n)	(n)	12 0	4 0	4 0	4 8	3 4	3 4	4 8	9 0	9 0	9 0
	52	Chittagong Hill Tracts—Rangamati.	4 0	4 0	8 0	5 0	5 0	8 0	4 6	4 0	4 0	3 0	3 8	4 0	8 0	8 0	8 0

\* Karkatch.

(a) Not in stock.

(n) Not reported.

Dacca,  
The 23rd August 1919.

J. C. Roy,  
for Director of Agriculture, Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 21st August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Elevation of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	15th Aug. 1919	6 A.M. ...	25.87'	101.83'	127.70'	0.30'	...	125.70'	118.70'	
	15th "	6 "	26.80'	56.319'	83.119'	0.15'	...	84.31'	77.31'	
	15th "	8 hours ...	22.30'	...	...	0.20'	...	23.40'	22.60'	
Brahmaputra	15th "	8 A.M. ...	17.40'	148.76'	166.16'	...	0.40'	171.76'	177.56'	
	15th "	12 hours ...	35.60'	...	...	Steady	...	...	...	
	15th "	8 A.M. ...	15.50'	...	...	0.30'	...	...	...	
Meghna	15th "	6 hours ...	15.42'	1.61'	17.03'	Steady	...	...	...	
	15th "	8-30 "	12.25'	1.61'	13.85'	Steady	...	...	...	
	15th "	7 A.M. ...	22.10'	...	...	...	0.10'	...	...	
Dhaleswari	15th "	7 "	25.80'	-8.62'	17.18'	Steady	...	...	...	
	15th "	6 "	27.01'	1.509'	28.519'	0.91'	...	28.46'	24.46'	
Bhagirathi	15th "	6 "	12.17'	92.58'	104.75'	...	3.41'	...	...	
Damodar	15th "	6 "	20.92'	-5.59'	15.33'	...	0.12'	...	...	
Lakhya	15th "	6 A.M. ...	12.35'	-0.599'	11.751'	0.05'	...	...	...	
Madaripur Pil Route	15th "	6 A.M. ...	12.35'	-0.599'	11.751'	0.05'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 21st August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	16th August 1919	6 A.M. ...	26.17'	101.83'	128.00'	0.30'	...	125.80'	118.80'	
	16th "	6 " ...	27.00'	56.319'	83.319'	0.20'	...	84.16'	77.41'	
	16th "	8 hours ...	22.40'	...	...	0.10'	...	23.20'	22.90'	
Prahnaputra	16th "	8 A.M.	18.00'	148.76'	166.76'	0.60'	...	171.36'	177.36'	
	16th "	12 hours ...	35.40'	...	...	...	0.20'	...	...	
	16th "	8 A.M. ...	15.50'	...	...	Steady	...	...	...	
Meghna	16th "	6 hours ...	15.33'	1.61'	16.94'	...	0.09'	...	...	
	16th "	9 " ...	12.00'	1.61'	13.61'	...	0.25'	...	...	
	16th "	7 A.M. ...	22.10'	...	...	Steady	...	...	...	
Dhaleswari	16th "	7 " ...	25.80'	-8.62'	17.18'	Steady	...	...	...	
Bhagirathi	16th "	6 " ...	27.38'	1.509'	28.889'	0.37'	...	28.38'	24.75'	
Damodar	16th "	6 " ...	11.00'	92.58'	103.58'	...	4.17'	...	...	
Lakhya	16th "	...	20.81'	-5.59'	15.22'	...	0.11'	...	...	
Madarijpur Btl Route	16th "	6 A.M. ...	12.35'	-0.599'	11.751'	Steady	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 21st August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	17th Aug. 1919	6 A.M....	26.17'	101.83'	128.00'	Steady	125.50'	118.50'	
	... { Rajmahal ...	17th " "	6 " "	27.10'	56.319'	83.419'	0.10'	83.96'	77.51'	
	... { Goalundo ...	17th " "	8 hours ...	22.50'	...	...	0.10'	23.10'	23.00'	
Brahmaputra	Gauhati ...	17th " "	8 A.M. ...	18.20'	148.76'	166.96'	0.20'	111.26'	177.36'	
	... { Seraganj ...	17th " "	12 hours ...	35.30'	...	...	0.10'	...	...	
	... { Dibrugah ...	17th " "	8 A.M. ...	15.20'	...	...	0.30'	...	...	
Meghna	Bhairab Bazar ...	17th " "	6 hours ...	15.25'	1.61'	16.86'	...	0.08'	...	
	... { Chandpur ...	17th " "	9.30 hours	12.40'	1.61'	13.61'	Steady	...	...	
	... { Fenchuganj ...	17th " "	7 A.M. ...	22.40'	...	...	0.30'	...	...	
Dhaleswari	Sabhar ...	17th " "	7 " "	25.80'	-8.62'	17.18'	Steady	...	...	
Bhagirathi	Swarupganj ...	17th " "	6 " "	27.55'	1.509'	29.059'	0.17'	28.33'	24.89'	
Damodar	Edilpur ...	17th " "	6 " "	9.67'	92.58'	102.25'	...	1.33'	...	
Lakhya	Narayanganj ...	17th " "	...	20.83'	-5.59'	15.24'	00.2'	...	...	
Madaripur Bil Route	Takerhat ...	17th " "	6 A.M. ...	12.40'	-0.399'	11.801'	0.05'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 21st August 1919

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	18th Aug. 1919	6 A.M. ...	25.97	101.83	127.80	...	0.20'	125.30'	118.10'	
	18th "	6 "	27.15	56.319	83.469	0.05'	...	83.91'	77.36'	
	18th "	8 hours ...	22.50	...	...	Steady		22.90'	23.10'	
Brahmaputra	18th "	8 A.M. ...	18.50	148.76'	167.26'	0.30'	...	170.76'	177.26'	
	18th "	12 hours ...	35.40	...	...	0.10'	...	...	...	
	18th "	8 A.M. ...	15.00	...	...	...	0.20'	...	...	
Meghna	18th "	6 hours ...	15.25	1.61	16.86'	Steady		...	...	
	18th "	10 "	12.08	1.61	13.69'	0.08'	...	...	...	
	18th "	7 A.M. ...	22.80	...	...	0.40'	...	...	...	
Dhaleswari	18th "	7 "	25.80	-8.62'	17.18'	Steady		...	...	
Bhagirathi	18th "	6 "	27.52	1.509'	29.029'	...	0.03'	28.30'	24.81'	
Damodar	18th "	6 "	9.17	92.58'	101.75'	...	0.50'	...	...	
Lakhya	18th "	...	20.92	-5.59'	15.33'	0.09'	...	...	...	
Madaripur Bil Route	18th "	6 A.M. ...	12.40	-0.599'	11.801'	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 21st August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						P.m.	P.m.	1912.	1919.	
Ganges	Monghyr ...	19th Aug. 1919	6 A.M.	25.57'	101.83'	127.40'	...	0.40'	125.20'	117.70'
	Rajmahal ...	19th "	6 "	27.20'	56.319'	83.519'	0.05'	...	83.81'	77.21'
	Goalundo ...	19th "	8 hours	22.60'	...	...	0.10'	...	22.80'	23.10'
Brahmaputra	Gauhati ...	19th "	8 A.M.	18.90'	148.76'	167.66'	0.40'	...	170.46'	177.06'
	Serajganj ...	19th "	12 hours	35.40'	...	...	Steady	...	...	...
	Dibrugarh ...	19th "	8 A.M.	14.90'	...	...	...	0.10'	...	...
Meghna	Bhairab Bazar ...	19th "	6 hours	15.33'	1.61'	16.94'	0.08'	...	...	...
	Chandpur ...	19th "	11 "	12.00'	1.61'	13.61'	...	0.08'	...	...
	Fenchuganj ...	19th "	7 A.M.	23.20'	...	...	0.40'	...	...	...
Dhaleswari	Sabhar ...	19th "	7 "	25.80'	- 8.62'	17.18'	Steady	...	...	...
Bhagirathi	Swarupganj ...	19th "	6 "	27.42'	1.509'	28.929'	...	0.10'	28.23'	24.71'
Damodar	Edilpur ...	19th "	6 "	10.58'	92.58'	103.16'	1.41'	...	...	...
Lakhya	Narayanganj ...	19th "	...	20.67'	- 5.59'	15.08'	...	0.25'	...	...
Madaripur Bil Route	Takerhat ...	19th "	6 A.M.	12.55'	- 0.599'	11.951'	0.15'	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 21st August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Height above P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	20th Aug. 1919	6 A.M.	25.47'	101.83'	127.30'	...	0.10'	124.90'	117.70'	
	20th "	6 "	27.15'	56.319'	83.469'	...	0.05'	83.66'	76.81'	
	20th "	8 hours	22.60'	...	...	Steady		22.60'	23.10'	
Brahmaputra	20th "	8 A.M.	18.80'	148.76'	167.36'	...	0.10'	170.08'	176.96'	
	20th "	12 hours	35.50'	...	...	0.10'	...	...	...	
	20th "	8 A.M.	14.70'	...	...	...	0.20'	...	...	
Meghna	20th "	6 hours	15.17'	1.61'	16.78'	...	0.16'	...	...	
	20th "	11.30 "	12.00'	1.61'	13.61'	Steady		...	...	
	20th "	7 A.M.	23.70'	...	...	0.50'	...	...	...	
Dhaleswari	20th "	7 "	25.80'	-8.62'	17.18'	Steady		...	...	
	20th "	6 "	27.58'	1.509'	29.089'	0.16'	...	28.25'	24.43'	
Phagirathi	20th "	6 "	11.50'	92.58'	104.08'	0.92'	...	...	...	
	20th "	...	20.44'	-5.55'	14.85'	...	0.23'	...	...	
Damodar	20th "	6 A.M.	12.50'	-0.599'	11.901'	...	0.05'	...	...	
	20th "	...	...	...	...	...	...	...	...	
Lakhya	20th "	...	...	...	...	...	...	...	...	
Madaripur Bil Route	20th "	6 A.M.	...	...	...	...	...	...	...	







**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 23rd August 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	8 4 0	8 6 0	0 3 3	0 3 9
" medium	8 7 0	9 0 0	0 4 0	0 4 3
Patnai, coarse	8 0 0	8 9 0	0 3 3	0 3 6
" medium	8 10 0	8 13 0	0 3 9	0 4 0
Nagra, coarse	8 0 0	8 8 0	0 3 6	0 3 9
" medium	8 10 0	8 12 0	0 4 0	0 4 3
Dudhkalma	8 10 0	.....	0 3 9	0 4 3
Rangoon Boiled	.....	.....	0 3 3	0 3 4½
Kajla	7 4 0	7 10 0	0 3 3	.....
Wheat, Dudhia	7 8 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 0 0	.....	.....	.....
Gram, Patnai (whole)	7 4 0	7 8 0	0 3 0	0 3 6
" dal	8 8 0	9 0 0	0 3 9	0 4 0
Mung " (Hari)	12 8 0	13 0 0	0 6 0	.....
" " (Krishna)	12 0 0	12 4 0	0 5 0	.....
Arhar	8 8 0	12 0 0	0 3 0	0 5 0
Masur " (split)	7 4 0	8 0 0	0 3 0	0 3 6
" " (Khanri)	9 8 0	10 4 0	0 4 0	0 6 0
Kalai	8 0 0	8 8 0	0 3 6	0 4 0
Salt	3 3 0	3 5 6	0 1 6	0 1 9
Sugar (Brown Java)	16 0 0	.....	0 7 0	0 9 0
Gur, Bheli	.....	.....	0 4 6	0 5 0
" Bhursut	9 8 0	9 12 0	0 6 0	.....
" Date	.....	.....	.....	.....
Milk	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	35 0 0	40 4 0	0 14 0	1 2 0
Flour, country	9 6 0	10 8 0	0 4 6	0 5 0
Atta, No. 3	7 8 0	.....	0 3 6	0 4 6
" " 2½	7 12 0	.....	.....	.....
" " B	10 10 0	.....	.....	.....
Suji	9 8 0	10 12 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	89 0 0	90 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	85 0 0	86 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	80 0 0	81 0 0	2 4 0	.....
Maize	6 0 0	6 4 0	.....	.....
Potato	6 0 0	8 0 0	0 3 6	0 4 0
Patal	6 8 0	8 0 0	0 3 0	0 3 6
Brinjal	.....	.....	.....	.....
Onion	3 10 0	4 12 0	0 1 6	0 2 0
Fish, Rahu	30 0 0	32 0 0	0 12 0	0 15 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

*Wholesale.*—Chetla Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 25th August 1919.



## IRRIGATION DEPARTMENT, BENGAL.

**Abstract Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of June 1919, as compared with the corresponding month of the previous year.**

Canals.	1919-20.					
	WEIGHT OF CARGO.		RAFFS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	8,475	32,469	932	6,944	4,002	11,832
Hijili Tidal Canal ...	9,147	28,668	12	2,033	7,739	23,875
<b>Total</b>	<b>17,622</b>	<b>51,127</b>	<b>944</b>	<b>8,977</b>	<b>11,741</b>	<b>35,707</b>
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	34,763	116,209	1,823	4,698	23,542	78,310
Tolly's Nala ...	17,459	54,354	11,100	32,200	6,002	17,621
Madaripur Bheel ...	114,330	332,388	2	839	21,393	65,955
<b>Total</b>	<b>166,552</b>	<b>502,951</b>	<b>12,925</b>	<b>37,737</b>	<b>50,937</b>	<b>1,61,886</b>
Magrahat Channels...	4,409	16,739	...	...	2,518	4,627
Orissa Coast Canal ...	5,932	15,197	43	2,475	1,186	3,885
Nadia Rivers ...	1,938	5,432	4,600	6,053	388	1,898
<b>GRAND TOTAL</b>	<b>178,831</b>	<b>540,319</b>	<b>17,568</b>	<b>46,265</b>	<b>55,029</b>	<b>1,72,296</b>

Canals.	1918-19.					
	WEIGHT OF CARGO.		RAFFS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	9,025	24,833	...	2,950	4,785	15,148
Hijili Tidal Canal ...	8,737	15,513	225	1,202	7,544	13,185
<b>Total</b>	<b>17,762</b>	<b>40,346</b>	<b>225</b>	<b>4,152</b>	<b>12,329</b>	<b>28,333</b>
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	34,675	127,845	2,220	10,065	22,084	77,687
Tolly's Nala ...	16,009	46,809	8,155	23,021	5,071	14,631
Madaripur Bheel ...	118,239	395,706	33	593	23,083	86,680
<b>Total</b>	<b>168,923</b>	<b>570,360</b>	<b>10,408</b>	<b>33,679</b>	<b>50,238</b>	<b>1,78,998</b>
Magrahat Channels...	3,061	8,016	...	...	3,494	5,069
Orissa Coast Canal ...	4,167	9,977	229	5,675	1,513	3,597
Nadia Rivers ...	5,313	12,623	...	5	1,000	3,858
<b>GRAND TOTAL</b>	<b>181,464</b>	<b>600,976</b>	<b>10,637</b>	<b>39,359</b>	<b>56,245</b>	<b>1,91,522</b>

CALCUTTA,  
The 26th August 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 16th August 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 16TH AUGUST 1919.			WEEK ENDING SATURDAY, THE 17TH AUGUST 1918.		
	Number of boats.	Weight of cargo	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	411	44,735	831	633	85,752	1,391
Jute ...	78	27,765 <sup>a</sup>	317	85	39,452 <sup>†</sup>	443
Firewood ...	121	74,325	1,169	158	58,200	868
Other articles ...	774	188,610	2,022	764	165,238	1,890
Total ...	1,384	335,435	4,339	1,640	348,642	4,592
Empty boats and rafts ...	705	...	1,434	463	...	1,460
GRAND TOTAL	2,089	335,435	5,773	2,103	348,642	6,052

Mds.  
<sup>a</sup> Weight by canal measurement ... 31,387<sup>4</sup>  
<sup>†</sup> Ditto ditto ... 44,825

CALCUTTA,  
 The 22nd August 1919.

G. J. ST. C. SEDGLEY,  
 Under-Secy. to the Govt. of Bengal.

## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 23rd August 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 23RD AUGUST 1919.			WEEK ENDING SATURDAY, THE 24TH AUGUST 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	355	36,020	625	718	98,468	1,578
Jute ...	74	22,203 <sup>a</sup>	255	48	27,094 <sup>†</sup>	275
Firewood ...	83	43,050	661	195	117,750	1,823
Other articles ...	680	174,815	1,655	760	183,573	1,935
Total ...	1,192	276,088	3,196	1,721	426,885	5,611
Empty boats and rafts ...	431	...	1,384	563	...	1,722
GRAND TOTAL	1,623	276,088	4,580	2,284	426,885	7,333

Mds.  
<sup>a</sup> Weight by canal measurement ... 26,800  
<sup>†</sup> Ditto ditto ... 29,495

CALCUTTA,  
 The 26th August 1919.

G. J. ST. C. SEDGLEY,  
 Under-Secy. to the Govt. of Bengal.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 16th August 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
10th August	8 A.M.	Zero of gauge is at mean sea-level.	56.75	54.21	B. M. on College step corrected (P. W. D.) 64.93.
11th "	8 "		58.20	55.91	
12th "	8 "		59.20	56.31	
13th "	8 "		59.80	56.51	
14th "	8 "		60.30	56.61	
15th "	8 "		60.50	56.61	
16th "	8 "		60.85	56.91	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. 2876, dated 8-33-17, dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

	Old value.	According to P. W. D. datum.
The previous year ... Highest water-level ...	60.62 on 30th August 1918	61.71
Ditto ... Lowest " ...	41.70 on 21st April 1918	38.89
Record ... Highest " ...	69.25 on 26th August 1879	64.44
Do. ... Ditto " ...	69.08 on 9th September 1885	64.27
Do. ... Ditto " ...	68.30 on 26th August 1906	68.47
Do. ... Ditto " ...	68.21 on 26th August 1890	68.40
Do. ... Lowest " ...	37.63 on 26th April 1884	32.32
Do. ... Ditto " ...	38.13 on 14th-15th April 1883	33.32
Do. ... Ditto " ...	39.02 on 21st-22nd April 1897	34.21
Do. ... Ditto " ...	39.28 on 6th-7th May 1906	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA.

S. C. BHATTACHARJI,

The 16th August 1919.

for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 16th August 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
10th August	7 A.M.	20.6	20.6	21.4	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
11th "	7 "	21.0	21.0	21.7	
12th "	7 "	21.6	21.6	22.0	
13th "	7 "	21.9	21.9	22.1	
14th "	7 "	22.1	22.1	22.3	
15th "	7 "	22.3	22.3	22.6	
16th "	7 "	22.4	22.4	22.9	

The previous year ... Highest water-level ...	25.2 on 1st September 1918.
Ditto ... Lowest " ...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges) ... Highest " ...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges) ... Ditto " ...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges) ... Ditto " ...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only) ... Ditto " ...	25.66 on 31st July 1900.
Do. ... Lowest " ...	1.0 on 8th February 1914.
Do. ... Ditto " ...	2.42 on 13th March 1908.
Do. ... Ditto " ...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do. ... Ditto " ...	3.16 on 9th to 11th March 1885.
Do. ... Ditto " ...	3.16 on 16th, 17th and 28th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

FARIDPUR,

R. K. GHOSE,

The 16th August 1919.

for Subdivisional Officer, P. W. D., Faridpur.



**Statement showing the gauge-readings at Dacca Water-works Station  
on the river Buriganga for the week ending the 16th August 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
10th Aug.	64.25	...	...	...	...	64.25	Fallur.
11th "	64.2	...	...	...	...	64.2	Do.
12th "	64.1	...	...	...	...	64.1	Do.
13th "	64.2	...	...	...	...	64.2	Do.
14th "	64.1	...	...	...	...	64.1	Do.
15th "	64.1	...	...	...	...	64.1	Do.
16th "	64.0	...	...	...	...	64.0	Do.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	Taken at low tide.
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	
28th February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.03	
6th "	1914	...	...	...	50.60	Taken at low tide.
22nd February	1915	...	...	...	50.30	
15th "	1916	...	...	...	50.60	
8th March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 19th August 1919.

W. J. KERR,  
Executive Engr., Dacca Division.



# REPORT ON THE STATE OF THE SALT MARKET FOR THE FIRST QUARTER OF THE YEAR 1919-20.

## GOVERNMENT OF BENGAL.

### FINANCIAL DEPARTMENT.

#### Separate Revenue Branch (Salt).

No. 24758.R.

*Dated Calcutta, the 26th August 1919.*

THE following report on the state of the salt market for the first quarter of the year 1919-20, comprising the months of April, May and June 1919, in the Presidency of Bengal, is published for general information.

2. The quantity of salt of every description cleared during the quarter amounted to 2,071,412 maunds (including 1,506,424 maunds issued under the credit system), as compared with 3,476,150 maunds (including 2,816,033 maunds issued under the credit system) in the previous quarter and 2,395,338 maunds (including 1,817,387 maunds issued under the credit system) in the corresponding quarter of the previous year. The net amount of duty levied was Rs. 24,72,946 (including Rs. 17,71,330 adjusted under the credit system), as against Rs. 33,64,657 (including Rs. 25,81,104 adjusted under the credit system) in the previous quarter, and Rs. 28,71,234 (including Rs. 21,82,127 adjusted under the credit system) in the corresponding quarter of the previous year.

3. The subjoined Table I shows in detail the importations into the Port of Calcutta and the total clearances of sea-imported salt during the quarter, compared with the figures of the corresponding quarters of the two previous years:—

Table I.

Whence Imported.	1917-18.		1918-19		1919-20.	
	FIRST QUARTER.		FIRST QUARTER.		FIRST QUARTER.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
1	2	3	4	5	6	7
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
United Kingdom ... ..	12,795	108,100	108,617	17,496	282,480	311,940
Hamburg and Bremen ... ..	...	...	...	...	...	...
Port Said ... ..	642,445	656,029	944,698	1,146,782	149,728	851,890
Spain ... ..	152,809	208,556	168,384	167,490	386,214	89,800
Saili ... ..	...	...	...	...	...	...
Holland ... ..	...	...	...	...	...	...
Aden ... ..	621,228	557,759	664,806	569,404	578,769	485,398
Rock Salt ... ..	...	...	...	...	...	...
Bombay ... ..	10,086	10,084	10,006	9,818	...	...
Madras, Coconada, Visagapatam, Masulipatam, etc. ... ..	96,708	96,708	10,000	10,000	...	...
Masowah ... ..	158,306	182,697	154,480	141,167	108,889	240,835
North Africa (Tunis), Egypt, etc. ... ..	...	...	...	...	...	...
Straits Settlements ... ..	...	2	...	...	...	32
United States of America (Pacific Coast) ... ..	...	6	...	1	...	2
Hong Kong ... ..	...	...	...	...	...	2
China ... ..	...	...	...	...	...	2
Java ... ..	...	...	...	...	...	...
Australia (South) ... ..	...	...	...	2	...	...
New South Wales ... ..	...	...	...	...	...	...
Italian East Africa ... ..	...	...	...	...	...	6
Total ... ..	1,696,871	1,811,941	2,061,806	2,050,609	1,456,925	1,701,351*

\* Inclusive of 1,506,424 maunds of salt issued under the credit system.



Compared with the corresponding quarter of the previous year and the same quarter of 1917-18, importations were less by 29·4 and 14·7 per cent., and clearances less by 17·0 and 6·07 per cent., respectively. As compared with the corresponding period of the previous year, the increased imports from the United Kingdom and Spain, and the decreased imports from Port Said, Aden and Massowah, are noticeable.

4. Table II shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the preceding four quarters:—

Table II.

Where stored.	First quarter of 1918-19.	Second quarter of 1918-19.	Third quarter of 1918-19.	Fourth quarter of 1918-19.	First quarter of 1919-20.
1	2	3	4	5	6
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government Salt <i>golus</i> ...	780,378	1,292,887	561,981	1,055,301	204,757
Chittagong Salt <i>golus</i> ...	407,968	629,380	383,965	295,371	79,499
Narayanganj (private bonded Salt warehouses) ...	5,120	11,302	19,280	27,453	5,955
Bhairab Bazar (private bonded Salt warehouses) ...	8,562	1,465	...	10,000	7,005
Jhalakati (private bonded Salt warehouses) ...	16,287	20,631	31,441	23,611	25,155
Madaripur (private bonded Salt warehouses) ...	770	...	...	...	415
Chandpur (private bonded Salt warehouses) ...	10,839	5,773	1,363	2,206	...
Total ...	1,229,915	1,901,438	998,030	1,413,942	322,786

5. The figures showing the despatches of salt from Calcutta by different routes during the quarter under report will be published as usual in the *Calcutta Gazette* by the Director of Statistics with the Government of India when they are available.

6. The quantity of salt despatched during the quarter by the East Indian Railway to stations beyond Buxar was *nil* as was in the previous quarter, as well as in the corresponding quarter of the previous year.

7. The quantity of saltpetre salt excised in the refineries of Bengal during the quarter was *nil*, as compared with *nil* in the previous quarter and 430 maunds in the first quarter of the previous year.

8. No information was available concerning the shipments of Liverpool salt during the quarter for the Port of Calcutta.

9. Table III shows the average wholesale prices\* per 100 maunds of Liverpool and other descriptions of salt at the Port of Calcutta during each fortnight of the quarter:—

Table III.

Description of salt.	Fortnight ending the 15th April 1919.	Fortnight ending the 30th April 1919.	Fortnight ending the 15th May 1919.	Fortnight ending the 31st May 1919.	Fortnight ending the 15th June 1919.	Fortnight ending the 30th June 1919.
1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Liverpool <i>panga</i> ...	111 7 3	151 0 0	182 7 1	188 0 0	...	...
Port Said crushed	100 0 0	...	178 12 0	180 0 0	178 0 0	179 3 6
Bombay <i>karkach</i> ...	...	...	...	...	...	...
Aden crushed ...	100 0 0	120 0 0	170 0 0	180 0 0	171 0 0	179 0 0
Salif crushed ...	...	...	...	...	...	...
Spanish <i>karkach</i> ...	130 0 0	155 0 0	...	183 0 0	183 0 0	183 0 0
Madras salt ...	120 0 0	122 8 0	180 0 0	127 8 0	117 8 0	113 8 0

\* The prices are exclusive of the Port Commissioners' special toll of 4 annas per ton and Customs duty of Rs. 1-4 per maund.



10. The subjoined Table IV shows the average wholesale prices per 100 maunds of salt at the Port of Chittagong during each fortnight of the quarter :—

Table IV.

Description of Salt.	Fortnight ending the 16th April 1919.	Fortnight ending the 30th April 1919.	Fortnight ending the 13th May 1919.	Fortnight ending the 31st May 1919.	Fortnight ending the 16th June 1919.	Fortnight ending the 30th June 1919.
1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Liverpool panga ...	...	...	...	...	...	...
Aden ...	125 0 0	178 2 0	187 8 0	187 8 0	189 1 0	189 1 0
Hamburg ...	...	...	...	...	...	...
Spanish ...	...	...	...	...	...	...
Port Said ...	118 12 0	175 0 0	187 8 0	187 8 0	189 1 0	189 1 0

11. Table V below shows the quantities of sea-imported salt admitted into bond and cleared from bond and shipboard at the Port of Chittagong and at the several inland warehousing stations :—

Table V.

Port or station	Description of salt.	ADMITTED INTO BOND.		CLEARED FROM BOND AND SHIPBOARD.	
		First quarter of 1918-19.	First quarter of 1919-20.	First quarter of 1918-19.	First quarter of 1919-20.
1	2	3	4	5	6
		Mds.	Mds.	Mds.	Mds.
Chittagong	English panga ...	...	...	2	2
	Aden ...	146,767	63,074	35,806	73,031
	Hamburg ...	...	...	...	...
	Spanish ...	...	...	87,262	...
	Port Said ...	236,765	...	125,510	218,093
	Massowah ...	...	...	...	...
Narayanganj	English panga ...	19,490	15,000	25,804	37,479
	Aden ...	7,000	...	7,362	...
	Spanish ...	10,000	3,000	7,200	500
	Port Said ...	5,500	...	4,560	5,450
	Massowah ...	...	5,000	...	...
Jhalakati	English panga ...	15,000	22,000	10,716	21,566
	Spanish ...	9,300	3,500	10,097	3,465
	Massowah ...	3,600	2,000	3,576	1,980
	Port Said ...	3,100	...	3,069	...
Bhairab Bazar	English panga ...	10,000	...	3,729	5,000
	Spanish ...	...	...	...	...
Madaripur	English panga ...	...	1,500	...	1,470
	Spanish ...	...	1,500	...	1,485
	Port Said ...	...	...	...	...
	Massowah ...	1,000	...	900	...
Chandpur	Aden ...	10,200	...	6,198	...
	Port Said ...	15,100	...	12,669	...
	Spanish ...	...	...	...	...
	Massowah ...	...	...	269	...
	Total ...	492,822	116,574	344,729	369,521

As compared with the corresponding quarter of the previous year, the quantities admitted into bond and cleared from bond and shipboard were less by 76.3 and more by 7.2 per cent., respectively.

By order of the Governor in Council,

C. F. PAYNE,

Secretary to the Govt. of Bengal.





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 3, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING, THE 23RD AUGUST 1919.

THE rainfall during the week was general and sufficient. Transplantation has been almost completed. The distress is decreasing owing to hopeful agricultural prospects. Sixty-four relief works were open during the week and the number of persons relieved on them was 7,467. The total number of persons on gratuitous relief was 17,334, viz., 12,186 on cash doles in 128 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The grand total of persons relieved was 24,801. The increase in the number of persons relieved on works was due to the completion of field work, and the decrease in the number of persons relieved on cash doles was due to better agricultural prospects and harvesting of early *bhadoi* crops. The number of persons relieved on private works was 800. The charitable societies also relieved 925 persons on weekly rice doles and 1,000 on daily rice doles and cooked food. One case of rice looting is reported during the week. The public health on the whole is good. Sporadic cases of cholera, malaria and influenza are reported. Cloth is being distributed to destitutes. The price of common rice varied from 5½ to 5¾ seers per rupee. Burma rice is being sold.

M. C. MCALPIN,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 28th August 1919.



**RESOLUTION ON THE REPORT ON THE OPERATIONS OF  
THE DEPARTMENT OF AGRICULTURE, BENGAL, FOR  
1918-19.**

**GOVERNMENT OF BENGAL.**

**REVENUE DEPARTMENT.**

**Agriculture Branch.**

CALCUTTA, THE 2ND SEPTEMBER 1919.

**RESOLUTION—No. 7274.**

**READ—**

The Report on the Operations of the Department of Agriculture, Bengal, for the year 1918-19.

Mr. S. MILLIGAN was in charge of the department throughout the year, but after its close was compelled to go on medical leave. Of the two Deputy Directors, Mr. K. McLean returned from military duty to the department early in February and Mr. F. Smith went on leave on account of ill-health at the end of January. In their absence Mr. Rajeswar Das Gupta continued to officiate as Deputy Director during the year, with such success that he has subsequently, with the sanction of the Secretary of State, been appointed permanently to the Indian Agricultural Service and confirmed in the third post of Deputy Director which has been created. The province is still without the services of its separate Chemical Expert, Mr. Annett, who was working in the United Provinces. Mr. Finlow, the Fibre Expert, therefore, performed the duties of Agricultural Chemist in addition to his own. Mr. Hector was Economic Botanist throughout the year. To each division a Superintendent, a member of the Provincial or Bengal Agricultural Service, was attached. The recruitment of district agricultural officers for each district in the Presidency was completed after the close of the year.

2. The number of students from Bengal at the inter-provincial agricultural college at Sabour, in the district of Bhagalpur, in the province of Bihar and Orissa, rose from 17 in the previous year to 32 in the year under review; of these, four held scholarships awarded by District Boards. The advance in numbers is remarkable and is attributed to the stimulus afforded by the creation of a service of district agricultural officers in Bengal, which was at the time under recruitment. On the basis of a scheme formulated by Mr. E. Biss of the Education Department, the establishment of two agricultural vernacular schools, one at Dacca and the other at Chinsura, was sanctioned during the year, for the training of the sons of cultivators in improvements in purely practical agriculture. It is hoped that most of the boys who attend these schools will return to their homes to make practical use of what they have been taught; and there is no thought or design of providing them with employment in Government service subsequently. It is expected that the school at Dacca will open in next January. A prospectus is under preparation which will be obtainable from the Director of Agriculture. The result of this experiment will be awaited with much interest. At the same time a scheme for the creation of an Agricultural Institute at Dacca, as foreshadowed by the Calcutta University Commission, is also under consideration.

3. The *indrasail* variety of transplanted *aman* paddy, or winter rice, which the Agricultural Department discovered by a process of selection, continues to be the best in point of view of yield; it is estimated that it yields three maunds per acre more grain than the average of the local varieties it displaces. Originally the distribution of the seed of this variety had been confined to the Dacca and Mymensingh districts; but in the year under



review it was extended over wider areas in Eastern and Northern Bengal, where the variety is reported to be generally suitable. Seventy-five tons of seed were distributed in 10-lbs. packets, and those cultivators, who are so fortunate as to possess a surplus of seed, are supplying their neighbours with seed. It is estimated that there will be 250,000 acres under this variety in the present season, 1919-20. Its success appears to be established. Experiments were made in the selection of the best deep-water winter varieties suitable to the low-lying areas in the east and south-east of the province. The *Kataktara* variety of *aus* paddy, or autumn rice, also discovered by a process of selection, was tested in nearly all the districts in which such rice is grown. It met with remarkable success and a large demand has arisen round centres where the seed has been distributed; for, it is not only superior in yield but also in quality to the ordinary variety of autumn rice. Another variety of autumn rice, viz., the *Surjamulchi*, which appears to have nearly the same advantages as *Kataktara* together with superior advantages in the way of straw, is under experiment. A special effort is also being made to discover an early but heavy yielder for use in the high lands of such districts as Bankura, where the crop is precarious and frequently fails in a year of short rainfall. So far the results from the trials of the selected variety of *Kataktara* as a transplanted rice in that district are encouraging, whilst in the Botanical Section experiments are being made to obtain by a series of crosses a combination in one variety of the two qualities of earliness and high yield. Moreover, a survey of the varieties grown in the Presidency and Burdwan Divisions has been started at Chinsura, with the object of selecting the best early varieties suitable to the west of the province.

4. During the year the distribution of seed of the selected *Kakya* *Bombai* variety of *Capsularis* jute was extended to cultivators in Eastern and Northern Bengal outside the Dacca and Mymensingh districts to which the distribution had previously been confined. Fifty-five tons of seed were so distributed. Approximately 25 tons in 1918 against 4 tons in 1917 was also distributed in  $\frac{1}{2}$  lb. packets for the multiplication of seed, but only 50 per cent. of the resulting crop was actually used for this purpose; the fibre of the remainder was sold. On account of its heavy yield not only the cultivators, but also the trade, appear to be well satisfied with it for ordinary purposes. It is estimated that it produces two maunds per acre more jute than the average local races, and that 100,000 acres have been planted with it in the present season, 1919-20. The demand for the seed is greater than the supply, with the result that in Faridpur cultivators have been forced to grow their own seed requirements, in this way fulfilling one of the aims of the Agricultural Department. Experiments continued to be made in the selection of the best variety of *Corchorus Olitorius*, which is more suitable to Western Bengal than *Capsularis*. Tests are being made of a promising new race (Chinsura green).

5. Investigations were continued into the "ufra" disease which attacks deep-water paddy. These confirm the general recommendations which have been made with regard to this pest, viz., the burning of the stubble of the previous crop and dealing with the low-lying area which remains wet throughout the year. But as the burning of stubble confers no benefit on the individual unless all his neighbours do it; the lines of attack developed by the department during the year were the conversion of low-lying areas into *boro* lands, and the encouragement of *rabi* cultivation and of the growth of early varieties of paddy which escape the disease.

An investigation into *Chlorosis*, a disease of the jute plant, has led to the tentative conclusion that immunity of the plants to the disease is hereditary in character.

Along with diseases may be mentioned that pest, the water-hyacinth, which is gaining ground in this Presidency with the rapidity of rabbits in Australia. The department has been spreading amongst the cultivators information of the uses which can be made of the weed as a fertilizer, as fuel or as fodder. An apparatus has also been devised for the extraction of potash salts on the spot, but it is expensive to work. Too much emphasis cannot, however, be laid on the fact that such measures for the utilization of the weed, where they can be taken without fear of the pest being exploited



or fostered for commercial gain, are only palliatives. Local bodies have therefore been advised to address themselves to the work of the complete extinction of the weed by uprooting and burning it, root and branch. In this herculean task the Governor in Council invites the co-operation of the whole population.

6. Amongst other activities of the Agricultural Department during the year under review may be mentioned the investigation of fertilizers suitable for jute; the chemical survey of the different soils in the province; the expansion of the new crop of groundnut in the Burdwan Division; the improvement of the tobacco crop; and the examination and selection of local and exotic varieties of sugarcane in respect of their suitability to Bengal conditions. Strides have been made in the work done at the Rangpur cattle farm, and it is now anticipated that the question whether the importation of outside blood is necessary or desirable for the improvement of breed will soon be answered. Until, however, this problem is solved, the Director of Agriculture rightly remarks that such operations should not be extended. During the year, owing to the marked rise in the price of cotton goods, public attention was attracted to the question of extending the cultivation of cotton in Bengal. A free distribution of the Dharwar variety was accordingly sanctioned for the April sowings, the result of which must be awaited; and Mr. N. Pillai, the Weaving Expert, was placed on special duty to investigate the requirements of the local weavers in respect of cotton and the number of *charkas* (spinning wheels) in the province. That conditions in Bengal are not generally favourable to any marked extension of cotton cultivation is now confirmed by the opinion expressed in the report of the Indian Cotton Committee, 1919, that exotic varieties of cotton are unsuited to the climatic and other conditions of the province, and that there seems no prospect of any appreciable extension of the area under the indigenous varieties. The recommendations of that Committee are under examination.

7. In pursuance of the policy of providing each district in Bengal with a farm, the establishment of three new farms was sanctioned in Mymensingh, Comilla and Bogra. It is anticipated that they will be ready for work in the forthcoming cold weather. The District Boards of Pabna and Bakarganj have also come forward with offers of co-operation in the establishment of farms in these two districts. Further, Sir Daniel Hamilton placed a farm at the disposal of the Agricultural Department at Gosaba in the 24-Parganas. The establishment of seed stores at each district headquarters in the province was sanctioned during the year.

8. An encouraging feature of the year is the growth of small non-official thana associations of practical cultivators as a link between the Agricultural Department and the cultivators in the districts of Birbhum and Faridpur. The attitude of Government towards these associations and the functions they are expected to perform in providing this link have been described in an important Resolution, No. 631T.R., published by this Government on the 7th June 1919. Since the close of the year a Board of the Agricultural Department, Bengal, has been established to advise on agricultural questions affecting the whole province. Its constitution is as follows:—

- (1) The Director of Agriculture, Bengal, *ex officio* President;
- (2) The Deputy Directors of Agriculture, Bengal;
- (3) The Agricultural Experts in Bengal; and
- (4) The Superintendent, Civil Veterinary Department, Bengal, so long as the Veterinary and Agricultural Departments are amalgamated.

The duties of the Board will be mainly advisory; they will advise Government on matters referred to them for opinion or on any other matter which the President may consider suitable for discussion. The President is empowered to convene committees to sit at any time during the year, to which visitors may be invited whose presence is necessary for the discussion of the particular matter in hand, such as, representatives of a trade concerned, and others.

There will be an annual meeting which will be held on such date and in such place as the President may decide. To it the Director of Agriculture is



empowered to invite other officials interested in agriculture, large land-owners, representative agriculturists, representatives of the allied trades and others interested in rural development, selected in such a manner as to be representative of the agricultural interests of each district throughout the presidency.

9. Another remarkable feature of the year was the increase in the sale of the Government-examined seed of silkworms by 31 per cent. under the control of Babu A. C. Ghosh, coupled with the discovery that the area of land under mulberry cultivation had increased by 33 per cent. since the year 1913. These facts are both tokens of the growing popularity of the Government seed as well as of a stronger demand for Bengal silk. Cross-breeding experiments were continued both at Berhampore under Mr. P. C. Chaudhuri and in Calcutta under Miss Cleghorn. Certain results have been obtained, but it is not intended to distribute the new hybrid races until their hardiness and immunity to disease under local conditions is established.

10. From the above description of the work of the department during the year, it will appear that there is considerable justification for the Director's assertion that the past year may be said to have been one of all-round progress for the Agricultural Department. If it does not provide a sufficient answer to the critics of the department, who allege that its successes are either non-existent or not very conspicuous, the following quotation from the report may serve to bring home to them the fallacy of such an allegation :—

“The departmentally selected rice and jute at present occupy roughly 250,000 acres and 100,000 acres, respectively. Taking the average increased yields of the improved paddy and jute over local races which they have replaced, to be 3 maunds (240 lbs.) and 2 maunds (160 lbs.) per acre, respectively, we arrive at the conclusion that, in the present year, the Bengal cultivator will, in the aggregate, be better off, on this account alone, by about Rs. 40 lakhs (£250,000 sterling). This figure may be expected to increase rapidly, for practically the whole rice and jute crops of the province will probably be affected in quite a few years. In this case the net income of the cultivators of rice and jute in Bengal would be increased by as much as Rs. 12 crores (£7,500,000 sterling) per annum.”

If the department does only this, it will have fully justified its existence, though there are still many other ways in which it can prove its usefulness. The Governor in Council has, therefore, much pleasure in acknowledging the services of Mr. Milligan, the permanent Director of Agriculture, of Mr. Finlow, the present officiating Director, and of those of the officers who have assisted them; the support which has been given them by numerous private individuals, commercial firms and local bodies; and the zeal with which Mr. G. S. Dutt, I.C.S., the Collector of Birbhum, has entered into the question of the development of agriculture in that district.

By order of the Governor in Council,

M. C. McALPIN,

*Secy. to the Govt. of Bengal.*



## NOTIFICATION.

No. 7187B.G.—The 30th August 1919.—The report on the working of the Government Cinchona Plantations and Factory in Bengal for the year 1918-19 is published for general information.

M. C. MCALPIN,  
Secy. to the Govt. of Bengal.

**FIFTY-SEVENTH ANNUAL REPORT OF THE GOVERNMENT  
CINCHONA PLANTATIONS AND FACTORY IN BENGAL FOR  
THE YEAR 1918-19.**

1. **General.**—From the beginning of 1875-76, the year in which factory products began to be issued, to the end of 1918-19, a period of 44 years, 219,200 lbs. of Cinchona Febrifuge were issued. Up to the end of 1886-87 this drug was the only and up to the end of 1889-90 the main product of the factory, but from 1890-91 onwards its issue steadily declined until 1914-15 when the scarcity and high cost of quinine brought Cinchona Febrifuge again into medical fashion. During the 18 years 1901-02—1918-19 the total quantity issued was 79,390 lbs., of which 36,842 lbs., or over 46 per cent., were sold during the last four years. From the beginning of 1887-88, in which year quinine began to be issued, to the end of 1918-19, a period of 32 years, the total quantity of quinine issued was 577,490 lbs., 15 oz. Of this quantity 242,296 lbs., or almost 42 per cent. of the total, were issued during the last four years. These figures are eloquent of the strain thrown on the Department by the demands of the war years. The immediate brunt fell upon the quinine reserve which the Department was fortunately enabled to build up at very low cost and just in time, and which stood at over 163,000 lbs. when war broke out. The reserve, however, could not meet indefinitely such a drain, and as during the latter half of the war period it was impossible to purchase either bark or quinine to supplement it, or even to foretell when such could be purchased, recourse was perforce had during the last two years to the otherwise undesirable expedient of increasing the immediate plantation harvest by cutting out immature acreages. Thus, the average age of the Munsong acreage cut out in 1918-19 was 6·7 years with an average total yield per acre of about 2,000 lbs. against an yield of 3,260 lbs. per acre from Mungpoo, where the average age of the acreage cut out was 9 years. In the circumstances this sacrifice of bark increment paid well, for the price of such quinine as could be got in the market ranged from Rs. 28 to Rs. 60 or more per lb. as against Rs. 7, the cost of manufacture from plantation bark. Still, the fact has to be faced that 2,270 acres of the 2,600 now under Cinchona are under 7 years of age. To allow of these acreages gaining a normal amount of bark increment, only a normal amount of "thinnings" should be harvested for the next few years. It should be possible to arrange for this, as the demand for quinine should now sink to a more reasonable level, and there is likely to be available from outside sources bark to be purchased by the Government of India, which bark with the harvest normal to the ages of the acreages of the plantations should suffice to keep the factory output up to a normal demand. As the partial sacrifice of bark increment was not in itself sufficient to counteract the heavy drain on the reserve, Government, as soon as export of quinine was resumed from Java, purchased in 1918, 49,000 lbs. of quinine at a cost of practically Rs. 13 lakhs. Although the purchase of this quinine has no direct bearing on the work of the Department, which has not even handled the quinine, for accounts purposes its cost and the revenue from its sale are most conveniently considered as coming within the Department's scope. All the Cinchona on the plantation, except 48 acres, has been planted since 1909-10. The total expenditure on the entire Department for the last ten years, exclusive of the Rs. 13 lakhs, is Rs. 27,30,806, and the total revenue, exclusive of the Prisons Department's share, is Rs. 71,79,916. The surplus, Rs. 44,49,110, is equal to a return of 28 per cent. per annum on each year's total expenditure during the period from the year of expenditure to the end of the period. In addition, the value of block and stock, exclusive of the 49,000 lbs. of quinine added to the latter, at the end of 1918-19 is over Rs. 20 lakhs in excess of the value of block and stock at the beginning of



1909-10. The debiting of Rs. 13 lakhs has the immediate effect of reducing the annual percentage figure to 18 per cent., but of course the value of stock is also increased by about Rs. 10 lakhs, not Rs. 13 lakhs, as the price of quinine has gone down since the purchase of the 49,000 lbs. As the stock is disposed of the percentage return will mount up again. The total value of block and stock at present is about Rs. 40 lakhs.

Had there been a sufficient acreage under Cinchona in India to produce the extra 49,000 lbs. of quinine that had to be purchased, the quinine would have cost only Rs. 3,43,000 instead of Rs. 13 lakhs. This is a practical argument in favour of India endeavouring to produce all the quinine it requires, and it is one that is likely during the next decade to present further opportunities of being appreciated, though it is to be hoped not in so pronounced a fashion as on this occasion.

2. **Extensions, acreages and crops.**—(a) *Mungpoo*.—Rainfall was 136·29 inches against an average of 123·56. Violent hailstorms on several occasions played havoc in the Cinchona nurseries with the result that there was a shortage of seedlings, which prevented the full programme of planting being carried through. Reversion to close planting—4 feet by 4 feet—also curtailed the superficial acreage planted. Cinchona extensions in all were 132 acres, consisting of 122 of *C. Ledgeriana*—100 on Mungpoo and 22 on Sittong divisions respectively,—and 10 of *C. Ledgeriana* × *C. succirubra* on Sittong. Nearly 56,700 trees, equivalent to 61 acres, of Cinchona of various ages, but of an average age of 9 years, were cut out, yielding 197,929 lbs. of dry bark, an average of 3·4 lbs. per tree or 3,260 lbs. per acre. Of the total bark harvest, 3,593 lbs. were *C. succirubra*, 35,949 lbs. *C. Ledgeriana* × *C. succirubra* and 158,387 lbs. *C. Ledgeriana*. The average quinine percentage of the Ledger bark was 5·11—the highest percentage yet recorded—of the hybrid bark 4·26, and of the mixed barks 4·9. At the end of March 1919 there were 525 acres under a full complement of Cinchona. During the year 202 acres were reafforested, bringing the total area now planted up with fuel and timber trees to 3,040 acres. Over 1,060 tons of wood fuel of value Rs. 1,740 and over 3,000 cubic feet of sawn timber of value Rs. 872 were supplied free to the Factory. Two *Sirocco* driers were purchased which have proved most useful in hastening the drying of bark during the rains.

(b) *Munsong*.—Rainfall was 103·18 inches against an average of 96·10. As in Mungpoo, hailstorms did considerable damage and a descent of frost killed about 30,000 seedlings. Extensions were 330 acres, consisting of 258 *C. Ledgeriana* (74 on Munsong, 44 on Burmiak and 140 on Sangser divisions, respectively), 42 of *C. Ledgeriana* × *C. succirubra* on Munsong division and 30 of *C. Ledgeriana* × *C. officinalis* on Burmiak. About 334,000 trees, equivalent to 311 acres, of various ages, but averaging 6·7 years, were cut out, yielding 624,850 lbs. of dry bark or an average of about 2 lbs. per tree and 2,000 lbs. per acre. Of the total harvest 541,650 lbs. were *C. Ledgeriana*, 35,680 lbs. *C. Ledgeriana* × *C. succirubra*, 38,880 *C. officinalis*, 8,320 *C. succirubra*, and 320 (*C. Ledgeriana* × *C. officinalis*). The average quinine percentage of the Ledger bark was 4·87, of the Hybrid (*C. Ledger* × *succirubra*) 3·66 and of the *C. officinalis*, 3·93. The average of the mixed barks was 4·8. At the end of March 1919, there were 2,075 acres under a full complement of Cinchona. During the year 62 acres of old Cinchona land were reafforested, bringing the total reafforested area on Munsong up to 366 acres.

(c) *Plantations as a whole*.—The total area under a full complement of Cinchona is 2,600 acres, of which 2,270 are under 7 years of age. Details are given in Appendix A.\* The approximate number of Cinchona trees is 3,700,000, of which about 910,000 are on Mungpoo and 2,790,000 on Munsong. The total bark harvest was 822,779 lbs.

3. **Factory work.**—186,500 lbs. of Mungpoo, 564,414 lbs. of Munsong, and 15,249 lbs. of South Indian, in all 766,163 lbs. were worked up. The average quinine percentages of the various barks were Mungpoo 4·9, Munsong 4·8, South Indian 3·12; so that the total amount of quinine sulphate theoretically available in the total quantity of bark used was 36,127 lbs. The actual quantity of quinine sulphate made was 32,640½ lbs. This, with 1,251 lbs. in the Cinchona Febrifuge and other quinine salts made, is equivalent to an extraction efficiency of 93·8 per cent. In addition to the 32,640·25 lbs. of

\* Not printed.



Quinine Sulphate, 103 lbs. of other Quinine salts, 11.25 lbs. of Cinchonidine Sulphate, 46.5 lbs. of Quinoidine and 11,439.75 lbs. of Cinchona Febrifuge were manufactured, or a total of 44,240.75 lbs. of Cinchona products. The factory also turned out 1,633 lbs. of quinine sulphate from bark purchased in Java by the Government of India. No account is taken of this in the Provincial stock, as such quinine is being kept aside as part of the Government of India reserve. The cost of extraction, however, at Rs. 2.6 per lb. of quinine extracted has been met from the Provincial allotment, and this cost remains for adjustment with the Government of India hereafter.

4. **Cost and value of plantation bark.**—The 197,929 lbs. of bark harvested from Mungpoo at 3.6 annas per lb. cost Rs. 44,534. The unit rate for bark during 1918-19 being 2 annas and the average quinine percentage of Mungpoo bark being 4.9, the market value of the bark was 9.8 annas per lb. or a total of Rs. 1,21,232, or Rs. 76,698 *plus* freight and carriage charges more than it actually cost. The 624,850 lbs. of Munsong bark at 2.7 annas per lb. cost Rs. 1,05,443, whereas its market value at 2 annas per unit and an average percentage of 4.8 was 9.6 annas per lb. or a total of Rs. 3,74,910 or Rs. 2,69,467 *plus* freight and carriage charges more than its actual cost. The total cost of the total harvest was Rs. 1,49,977, while the actual market value was Rs. 4,96,142. In other words, purchase of the same quantity of bark in the market would have cost Government Rs. 3,46,165 *plus* freight and carriage charges more than it actually did cost.

5. **Cost and value of quinine produced.**—(a) **Cost in the bark.**—The 750,914 lbs. of plantation bark used in the factory cost—at 3.6 annas per lb. for Mungpoo and 2.7 for Munsong—Rs. 1,37,197 and yielded 32,194½ lbs. of quinine. The cost of quinine in the plantation bark before extraction was, therefore, Rs. 4.25 per lb. The 15,249 lbs. of South Indian bark, purchased last year, cost Rs. 6,700 and yielded 446 lbs. of quinine, so the cost of quinine per lb. in South Indian purchased bark before extraction was Rs. 15 per lb.

(b) **Cost of extraction, packing and delivery to railway.**—The factory expenditure, exclusive of bark and quinine purchase, but *plus* depreciation, share of general charges, and other charges and *minus* the cost of manufacturing Cinchona products other than quinine, was Rs. 90,462. The total quantity of quinine, including the quinine from the Java bark, manufactured, was 34,273 lbs. The cost of extraction per lb. of quinine produced from all barks was, therefore, Rs. 2.6.

(c) **Total cost per lb.**—For plantation bark this was Rs. 6.85 per lb. and for South Indian purchased bark Rs. 17.6.

(d) **Value.**—At Rs. 20 per lb.—about the lowest rate at which quinine could be purchased landed in India,—the total value of the 32,640½ lbs. of quinine produced for the Government of Bengal was Rs. 6,52,805 which is Rs. 4,24,036 more than it actually cost Government to produce it.

6. **Sales and selling rates.**—Total issues were 67,331 lbs. 1 oz. of Cinchona products and 4,204 lbs. of bark. Of the total, 50,236 lbs. were of quinine sulphate, of which 12,773 lbs. 14 oz. were sold or distributed in tablet form as "treatments". This is a considerable drop from the quantities sold for "treatments" during 1914-16. Quinine in tablet form was sold at the rate of Rs. 43-12 per lb. Quinine in powder form was sold at rates varying from Rs. 26 to Rs. 28 per lb. according to quantities. Rates for other products were Cinchona Febrifuge Rs. 5 to Rs. 6; Cinchonine and Cinchonidine Rs. 11 to Rs. 12; Quinoidine and Residual alkaloids Rs. 4 to Rs. 5.

7. **Expenditure and receipts.**—The total direct expenditure on the Department was Rs. 2,88,751-12-1. In addition to this, Rs. 8,89,486-9 has so far been debited against the Department on account of the purchase by the Government of Bengal of 49,000 lbs. of quinine from Java to replenish the Provincial quinine reserve. This brings the total expenditure up to Rs. 11,78,238-5-1. The gross receipts were Rs. 15,11,724-10-10, of which Rs. 7,70,475 were credit and Rs. 7,41,249-10-10 cash. Of the latter Rs. 1,65,180-2 are claimed by the Prisons Department to cover the cost of converting 12,773 lbs. 14 oz. of purified quinine into tablet form and for packing and distributing the tablets. The net revenue to be accredited to the Cinchona Department is, therefore, Rs. 13,46,544-8-10 and the net surplus for the year Rs. 1,68,306-3-9. This is a small money surplus compared with



that of last year, but much less quinine has been sold—50,236 lbs. as against 98,145 lbs.—and in addition nearly Rs. 9 lakhs have gone in the purchase of quinine to bring up the reserve.

8. **Quinine reserve and stock account.**—The Provincial quinine reserve has been increased by 31,404½ lbs. and at the end of the year was 94,653 lbs. The value of stock of all sorts on the 31st March 1919 was Rs. 20,58,715, of which Rs. 18,93,060 is represented by quinine. Factory products and bark have been valued at lowest wholesale market rates, other things at cost price.

9. **Block account.**—This is shown in Appendix\* F. The Cinchona trees are valued at Rs. 15,01,218, the timber trees at Rs. 2,61,738, buildings at Rs. 1,30,012 and machinery at Rs. 76,693. Total value is Rs. 19,69,661.

10. **Profit and Loss valuation.**—The change since the end of last financial year in valuation of block and stock, expenditure—except capital expenditure—and receipts also being taken into computation, shows a profit balance of Rs. 5,51,909.

11. **Land rent.**—Rupees 4,826-2 were paid into the Darjeeling Treasury on this account.

12. **Staff.**—Lieut.-Colonel A. T. Gage, I.M.S., was in administrative charge throughout the year. Mr. G. E. Shaw, B.Sc., F.I.C., F.C.S., Government Quinologist and Mr. P. T. Russell, Manager of Mangpoo, were on deputation—the former for one month from the 24th March 1919, the latter for four months from the 1st January 1919—under the Director of the Botanical Survey of India in connection with the scheme for starting Cinchona plantations and a quinine factory in the Tavoy district in Burma. Mr. T. H. Child, Assistant Quinologist, on return from active military service, resigned his post on the 6th March 1919. All the officers of the Factory and Plantations and the clerical staff performed their duties with their wonted efficiency.

## ADDENDUM.

### Medicinal plants other than Cinchona.

*Ipecacuanha.*—By specially protecting the nurseries all the plants survived the cold weather. About 15,000 cuttings have been struck and the stock of plants now stands at 70,000. The older plants are now seeding freely. This should hasten the time of production of root for manufacture, as there should now be less need to utilize roots for propagation.

*Digitalis.*—There are now about 4 acres under *Digitalis*. The plants are flourishing and by June 1920 should produce about 4,000 lbs. of dried leaf. The *Sirocco* driers have proved a great help in dealing with the harvest of this crop. During the year 80 lbs. of dried leaf were supplied to Medical Depôts.

*Chenopodium.*—About 15 acres have been sown broadcast with *C. ambrosioides* and *C. anthelminticum*, but so far this method of cultivation is not so promising as transplanting from seed beds. The yield of oil, about 1½ lbs. per acre, is very poor, and it scarcely pays to cultivate it. Until definite medical opinion in favour of the use of *Chenopodium* oil, in the treatment of hookworm disease is forthcoming, it would not be advisable to extend cultivation.

*Belladonna.*—This has proved a troublesome plant to grow at Mungpoo, the seedlings transplanting badly. So far one acre has been planted which is expected to yield about 300 lbs. of dried leaf the first year after planting.

*Lycopodium.*—This occurs naturally in fair abundance on Mungpoo plantation, and is more than enough to supply all the Medical Stores requirements so far indicated. Twenty lbs. of *Lycopodium* spores were supplied to the Madras Medical Stores and 142 lbs. to a private firm.

*Other medicinal plants.*—Seeds of other medicinal plants have been sent to Mungpoo, but it is too early yet to report on them.

A. T. GAGE, LT.-COL., I.M.S.,

Superintendent, Royal Botanic Garden, Calcutta,  
and of Cinchona Cultivation in Bengal.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 26th August 1919.

**Summary.**—During the week rainfall was heavy in the Chittagong Division and generally light to moderate elsewhere. The recent rainfall has facilitated further transplanting of winter paddy, but more rain is still urgently needed for the purpose in North Bengal and in parts of East Bengal. Transplanting has nearly been completed in West Bengal, where prospects are reported to be hopeful. Weeding is progressing. Autumn paddy is being reaped and a satisfactory outturn is expected. Owing partly to deficient rainfall and partly to lowness of river flood steeping of jute is being hampered in North and East Bengal. The average price of common rice for the province has risen by about 6·80 per cent. as compared with that of the previous week. The average number of persons engaged daily in test works in Brahmanbaria subdivision of Tippera district was 154.

Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEER. PER RUPEE		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	4·69	4	5½	Transplanting of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are progressing. Condition and prospects of jute are good. Damage by insects is reported from some places in Barasat subdivision. Harvesting of jute is progressing in the Barasat and Basirhat subdivisions. Fodder and water are sufficient.
	Diamond Harbour.	(n)	(n)	(n)	
	Barrackpore	0·86	4½	(n)	
	Barasat ...	0·87	5	5½	
	Basirhat ...	1·55	4½	5½	
2	NADIA ...	1·24	4½	5½	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy continues. The steeping of jute has commenced. Effects of weather are favourable. Some damage to jute has been done by insect-pests.
	Kushtia ...	0·52	5	5	
	Meherpur ...	0·70	6½	5½	
	Chuadanga ...	0·92	5	5	
	Ranaghat ...	(n)	(n)	5½	
3	MURSHIDABAD	1·45	5	5	Prospects of standing crops are good. Harvesting of <i>aus</i> paddy is progressing. Transplanting and weeding of <i>aman</i> paddy are in progress. Condition and prospects of jute are good. Effects of weather are favourable to its growth. Some damage is apprehended by flood in Jangipur subdivision. Harvesting is progressing. Cattle-disease is reported from Burwan and Khargram thanas in Kandi subdivision. Fodder is sufficient. No large import or export.
	Lalbagh ...	1·01	5	5	
	Jangipur ...	1·45	4½	4½	
	Kandi ...	0·64	5	5 to 6½	
4	JESSORE ...	1·08	5	5	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy are progressing. Standing crops are doing well. Condition and prospects of jute are fair. Steeping and washing continue. Fodder is sufficient.
	Jhenidah ...	0·24	5	5½	
	Magura ...	0·60	5	5	
	Narail ...	1·32	4½	5	
	Bangaon ...	0·85	4½	5	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
5	KHULNA ...	Inches 2.28	5½	4½	Transplantation of <i>aman</i> paddy is going on. <i>Aman</i> seedlings and newly transplanted <i>aman</i> are recovering from the damage caused in early part of the month. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Harvesting is going on. Cattle disease is reported from Kaliganj and Protapnagar police-stations. Fodder is being damaged to some extent in Satkhira subdivision on accounts of heavy rain. Water is sufficient.
	Satkhira ...	1.09	5	5	
	Bagerhat ...	2.38	4½	4½	
6	BURDWAN ...	0.46	4½	5	Weather cloudy. Transplanting of <i>aman</i> paddy is nearly finished and weeding of <i>aman</i> paddy is progressing. <i>Aus</i> paddy and sugarcane are doing well. Harvesting of jute is progressing. The prices are abnormally high on account of export. Non-agricultural middle class people feel the strain. Cattle-disease is reported from Galsi and Sahebganj.
	Asansol ...	2.09	4½	5	
	Katwa ...	1.45	4½	5½	
	Kalua ...	0.65	4	4½	
7	BIRBHUM ...	1.60	5	5	Transplantation continues. Prospects of standing crops are favourable. Fodder and water are sufficient. A sum of Rs. 200 has been given as agricultural loan
	Rampurhat ...	1.18	4½	4½	
8	BANKURA ...	3.38	5	5½	Transplantation of paddy is finished. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	2.33	5½	4½	
9	MIDNAPORE	4.68	5½	5½	Transplantation of winter rice is progressing. Condition and prospects of jute, autumn rice, <i>bhadoi til</i> are fair. Cattle-disease is reported from Contai, Bahiri and Khajri thanas.
	Ghatal ...	3.90	4½	5½	
	Tamluk ...	2.02	5	6	
	Contai ...	3.23	5½	5½	
10	HOOGHLY ...	0.61	4½	4½	Price of rice is rising. Condition and prospects of jute are good. Effects of weather are favourable. Harvesting is going on. Damage by insect-pests is reported from Sadar and Serampore subdivisions. Fodder is sufficient.
	Serampore ...	0.74	4½	5½	
	Arambagh ...	3.25	5½	5½	
11	HOWRAH ...	4.96	4	5	Weather rainy. Condition of sugarcane is good. Transplantation of <i>aman</i> paddy is almost over. Condition of jute is good. Slight damage by insects has been done in Singti and Amta thanas. Harvesting of jute continues in low lands. Fodder is sufficient.
	Ulubaria ...	2.99	5½	5½	
12	RAJSHAHI (RAMPUR- BOALIA).	2.42	4½	4½	The prospects of jute and other standing crops are favourable. Harvesting of jute and <i>aus</i> paddy and transplantation of winter rice continue. Fodder is sufficient.
	Naogaon ...	2.43	4½	4½	
	Nator ...	1.40	4½	4½	



Serial No.	District and subdivision.	Rainfall	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ... Thakurgaon ... Balurghat ...	2.75 1.29 2.11	4½ 5 4½	4½ 5 4½	Weather is favourable to standing crops at Sadar and Balurghat subdivisions. More rain is wanted for transplantation of <i>aman</i> paddy in Thakurgaon subdivision. Rice market is daily rising owing to large export.
14	JALPAIGURI ... Alipur ...	0.53 1.25	5 4	5 4½	Weather hot. Prospects of standing crops are fair. More rain is badly wanted for transplantation of winter rice and washing of jute. Fodder and water are sufficient.
15	DARJEELING ... Kurseong ... Siliguri ... Kalimpong ...	7.02 6.68 3.00 3.15	4½ 4½ 4 5½	4½ 4½ 4 (n)	Harvesting of potatoes, maize and cardamom continues. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Harvesting and steeping of jute continue. Transplanting of autumn paddy is going on. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
16	RANGPUR ... Nilphamari ... Kurigram ... Gaibandha ...	1.99 1.78 2.05 0.98	4½ 4 4½ 4½	4½ 4½ 4½ 4½	Weather hot and cloudy. Cutting of jute and harvesting of <i>aus</i> paddy continue. The condition and prospects of jute are good. Transplanting of winter rice and steeping and washing of jute are retarded for want of sufficient rain. More rain is badly needed. Weather is not favourable for winter rice. Fodder and water are sufficient. Cattle-disease is subsiding at Nilphamari subdivision.
17	BOGRA ...	3.81	4½	4½	Harvesting of <i>aus</i> paddy and jute and transplanting of winter paddy are progressing. Progress of steeping and washing of jute is retarded for low flood. Condition of broadcast <i>aman</i> paddy in eastern part of the district is not favourable.
18	PABNA ... Sirajganj ...	3.93 2.87	5 4	5 4	<i>Aus</i> paddy has been harvested. Harvesting of jute continues. Water is insufficient for steeping of jute. The prospect of <i>aman</i> paddy is fair in Sadar and bad in Sirajganj subdivisions. Supply of fodder is tolerable.

(n) Not reported



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
19	MALDA ..	Inches 6·81	4½	5	Rain is wanted in Kharba thana for paddy. Prospects of jute are fair. No damage to crop is reported. Harvesting has commenced in places. Fodder and water are sufficient. Cattle-disease is reported from Bholahat and Shibganj thanas. The price of food-grains is rising.
20	COOCH BEHAN	1·60	7½	(n)	Weather hot with occasional showers. More rain is wanted for transplantation of <i>haimanti</i> paddy seedlings and steeping and washing of jute. Harvesting of <i>bitri</i> paddy continues. Fodder is sufficient. Cattle-disease is reported from Mathabhanga subdivision.
21	DACCA ...	4·01	3½	4	Weather seasonable and beneficial to standing crops. Prospects of jute and <i>aman</i> paddy are good and a good out-turn is expected. The rise of river level is benefitting broadcast and transplanted paddy.
	Manikganj ...	1·94	4	4	
	Narayanganj	4·14	{ 3½ to 3½ }	4	
	Munshiganj*	(n)	(n)	(n)	
22	MYMENSINGH	2·54	3½	3½	Weather hot with occasional showers. More rain is badly wanted. Transplanting of winter paddy and steeping of jute are impeded for want of rain. Harvesting of jute and <i>aus</i> paddy continue slowly. Prospects of crops are fair, but growth is affected. Fodder is sufficient, but insufficiency of water is feared.
	Jamulpur ...	2·73	3½	4	
	Tangail ...	(n)	(n)	4½	
	Netrakona ...	4·04	3½	3½	
	Kishorganj...	12·64	3½	4	
23	FARIDPUR ...	4·45	3½	4½	Weather is favourable to the standing crops. Harvesting of jute is progressing. Insufficiency of stock is reported from Gopalganj. The prices are rising. Fodder is available.
	Goalundo ...	3·61	4½	5½	
	Madaripur ...	1·36	4	4½	
	Gopalganj†...	1·66	4	4½	
24	BAKARGANJ (BARISAL).	2·30	3½	{ 4½ to 5½ }	Prospects of jute are good and those of other crops fair. Weather is favourable to jute. No damage done to the crop. Harvesting is nearly finished. Fodder is sufficient.
	Pirojpur ...	1·88	3½	4½	
	Patuakhali...	5·94	3½	{ 4½ to 5½ }	
	Dakshin Shahazpur (Bhola).	6·88	3½	(n)	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ *Aus* rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
25	CHITTAGONG	6.79	4½	4½	Prospects of standing crops are good. Cultivation of <i>aman</i> paddy is going on. Harvesting of <i>aus</i> crop is progressing. <i>Punga</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
	Cox's Bazar	7.70	4½	4½	
26	TIPPERA (COMILLA)	7.79	4½	4	The prospects of <i>aus</i> paddy are fair and those of jute are good. Harvesting of jute and <i>aus</i> paddy is going on. Recent rainfall has been favourable to transplantation in general and to the growth of <i>barshall</i> paddy in Brahmanbaria subdivision: 145 men and 9 children worked daily on an average for eradicating water hyacinth in Brahmanbaria subdivision. The price of rice is very high and that of jute is falling.
	Brahmanbaria.	4.71	4	3½	
	Chandpur ...	4.34	4½	4½	
27	NOAKHALI ...	4.76	3½	4½	Weather seasonable. Prospects of standing crops are good. Transplantation of <i>aman</i> paddy. Prospects of jute and effects of weather on its growth are fair in Sadar and good in Feni subdivision. Harvesting continues. Fodder sufficient.
	Feni ...	2.97	{ 3½ 4½	{ 3½ 4½	
28	CHITTAGONG HILL TRACTS.	5.38	5	5	Prospects of <i>jhum</i> crops are good. Rainfall is insufficient for high land paddy. Fodder is sufficient.

\* *Aus* rice

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA, the 1st September 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 30th August 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	.....	.....	0 4 6	.....
„ medium	.....	.....	0 4 9	.....
Patnai, coarse	10 0 0	10 4 0	0 4 0	.....
„ medium	10 6 0	10 12 0	0 4 3	.....
Nagra, coarse	10 0 0	10 4 0	0 4 3	.....
„ medium	10 8 0	11 0 0	0 4 6	.....
Dudhkalma	10 10 0	11 0 0	0 4 3	0 4 6
Rangoon Boiled	.....	.....	0 3 0	0 4 0
Kajla	8 8 0	.....	0 4 0	.....
Wheat, Dudhia	8 10 0	.....	.....	.....
„ Gangajali	.....	.....	.....	.....
„ Jamali	7 6 0	7 12 0	.....	.....
Gram, Patnai (whole)	7 7 0	7 8 0	0 3 0	0 3 6
„ dal	8 8 0	9 0 0	0 3 9	0 4 0
Mung „ (Hari)	12 0 0	12 8 0	0 5 0	0 6 0
„ „ (Krishna)	11 8 0	12 0 0	0 4 0	0 5 0
Arhar „	8 0 0	11 8 0	0 4 0	0 5 0
Masur „ (split)	7 4 0	8 8 0	0 3 0	0 4 0
„ „ (Khanri)	9 8 0	10 8 0	0 3 6	0 5 0
Kalai „	8 0 0	9 0 0	0 3 6	0 5 0
Salt	3 3 0	3 6 0	0 1 6	0 1 9
Sugar (Brown Java)	17 4 0	.....	0 8 0	.....
Gur, Bheli	.....	.....	.....	.....
„ Bhursut	9 8 0	9 12 0	.....	.....
Milk	10 0 0	12 0 0	0 5 0	.....
Mustard oil	35 0 0	40 8 0	1 0 0	1 3 0
Flour, country	9 10 0	10 10 0	0 3 6	0 4 6
Atta, No. 3	7 14 0	} .....	0 4 0	0 5 0
„ „ 2½	8 2 0			
„ „ B	10 12 0			
Suji	9 12 0	11 0 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 6 0	.....
„ (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	85 0 0	86 0 0	2 4 0	.....
„ (Lalli, Etwa, Sagar, etc.)	80 0 0	81 0 0	2 2 0	.....
Maize	5 8 0	6 0 0	.....	.....
Potato	6 4 0	7 8 0	0 3 0	0 4 0
Patal	4 12 0	5 8 0	0 2 6	0 3 6
Brinjal	4 12 0	5 0 0	0 2 0	0 2 6
Onion	3 12 0	4 6 0	0 1 9	0 3 0
Fish, Rahu	28 0 0	32 0 0	0 10 0	1 0 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar.

S. C. Roy,

for President, Advisory Food Committee.

CALCUTTA, the 1st September 1919.



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, i.e., by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the months of April to June, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta\* by rail, river, canal, road, and sea (coastwise) during the months of April to June, 1919, amounted to 6,212,000 maunds, as against 3,290,000 maunds in the corresponding period of the preceding year,—an increase of 89 per cent. There was an increase (39 per cent) in the imports of coal and coke (26,002,000 maunds as against 18,713,000 maunds last year). The value of the imports by rail, river, road, and sea (coastwise) of Indian cotton piecegoods showed an increase of 95 per cent, the total value amounting to Rs. 2,09,76,000 as against Rs. 1,07,66,000 in 1918. The quantity of indigo imported during the months of April to June, 1919, decreased by 3,527 maunds to 398 maunds. The imports of raw jute amounted to 651,000 bales as against 975,000 bales,—a decrease of 33 per cent. The importations of gunny bags also showed a decrease of 17 per cent (85 million bags as against 103 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 62 per cent from 1,615,000 maunds to 2,615,000 maunds. The imports of tea decreased by 11 per cent from 511,000 maunds to 456,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta\* by all routes during the months of April to June, 1919, increased by 12 per cent (Rs. 7,32,50,000 as against Rs. 6,52,68,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) decreased from 299 million bags to 267 million bags, but the shipments of gunny bags to other Indian ports increased from 9 millions to 11 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) increased from 1,193,000 maunds to 1,277,000 maunds, or by 7 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.

† One maund of paddy is equivalent to 2½ seers of rice.



TABLE I

Trade of Calcutta in certain selected articles in the three months, April to June, 1919, compared with the corresponding months of 1918.

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COASTWISE)	
	April to June, 1919	April to June, 1918	April to June, 1919	April to June, 1918
<b>Food-grains—</b>				
Rice ... .. Mds	5,497,313	2,923,682	1,117,111	1,828,169
Paddy ... .. "	1,207,108	580,698	108,894	...
Total (in rice) (b)	6,911,654	3,290,368	1,189,170	1,828,169
Wheat... .. "	661,070	1,410,641	32,456	28,403
Wheat flour ... .. "	20,608	10,664	113,538	109,414
Gram and pulse ... .. "	1,808,870	1,761,380	479,093	408,926
Other food-grains ... .. "	264,203	132,840	19,839	16,127
Total food-grains ... .. "	8,663,661	7,006,893	1,830,398	2,091,335
Coal and Coke ... .. "	26,001,673	18,712,773	2,313,389	707,663
Cotton, raw ... .. Bales	66,389	33,174	24,400	6,668
" twist and yarn, Indian ... .. Mds	71,747	76,737	83,861	21,080
" piece goods, Indian ... .. Rs	2,09,76,014	1,07,65,662	4,04,461	2,60,870
Indigo ... .. Mds	399	3,325	2,854	10,386
Jute, raw ... .. Bales	661,299	973,448	467,407	512,327
" gunny bags ... .. No	65,185,679	101,672,227	288,247,852	268,487,364
Lac ... .. Mds	131,915	131,651	116,063	101,323
Oilseeds—Linseed ... .. "	1,740,180	667,629	1,092,006	217,609
" Rape and mustard ... .. "	874,496	957,419	9,469	84,003
Silk, raw ... .. "	417	165	1,248	981
Sugar—Refined ... .. "	16,784	62,692	49,198	4,648
" Unrefined ... .. "	161,500	144,003	807	119
Tea (Indian) ... .. "	456,747	511,322	632,749	703,423
Tobacco—unmanufactured ... .. "	278,044	201,680	44,507	18,234
" manufactured ... .. "	16,972	21,726	2,601	1,406
	IMPORTS		EXPORTS	
	BY SEA (FOREIGN AND COASTWISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April to June, 1919	April to June, 1918	April to June, 1919	April to June, 1918
Cotton twist and yarn—foreign ... .. Mds	6,671	25,240	53,413	55,842
" " " —Indian ... .. "	7,023	65	185,367	94,664
" piece goods—foreign ... .. Rs	2,18,50,465	6,04,06,493	7,32,49,951	6,82,68,290
" " " —Indian ... .. "	5,69,306	8,960	1,67,79,905	59,81,695
Kerosene oil (c) ... .. Mds	1,265,711	1,807,974	1,276,544	1,792,629
Salt ... .. "	1,368,144	2,149,248	2,393,639	2,039,766
Gunny bags ... .. No	...	...	39,329,798	35,928,002

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 26 seers of rice.

(c) Including figures of Budge-Budge trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River.

Whence imported	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (a)	Cotton piece goods, Indian (b) (c)	
	Rice and paddy			Wheat	Wheat flour	Gram and pulse	Other food-grains	Total					
	Rice	Paddy (a)	Total (in rice)										
BEHAL.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Sales of 400 lbs	Mds	Ra.	
Bardwan	87,375	186,390	186,910	.....	2	2,469	20	187,401	10,351,880	9	5	1,000	
Birbhum	76,010	1,096	76,697	.....	18	.....	.....	76,715	.....	2	.....	1,300	
Bankura	1,996	80,836	91,267	2	.....	.....	.....	91,309	.....	4	.....	4,000	
Midnapur	633,666	8,873	639,815	.....	.....	10,916	.....	640,039	.....	103	1,169	1,00,000	
Hooghly	316,389	136,626	400,653	409	317	11,878	181	418,414	16,700	11	9,866	2,50,000	
24-Parganas	749,964	339,126	954,918	406	32	7,141	1,035	963,511	29,582	808	9,012	1,00,000	
Nadia	26,040	80,350	59,946	13,664	4,080	389,656	12,973	399,267	.....	236	9	10,000	
Murshidabad	26,207	373	26,374	6,797	203	84,168	8,704	94,250	.....	7	.....	1,300	
Jessore	59,081	89,459	62,682	307	63	108,679	263	190,066	.....	269	9	600	
Khulna	183,016	339,832	276,241	668	.....	16,682	214	299,905	.....	161	.....	.....	
Rajshahi	3,688	109	2,156	11,038	39	82,689	.....	66,681	.....	3	.....	4,600	
Dinajpur	23,047	23,969	44,391	.....	.....	1,938	267	46,666	.....	13	.....	100	
Jalpaiguri	497	1,496	1,432	.....	.....	.....	.....	1,439	.....	.....	3	600	
Darjeeling	448	1,339	1,403	.....	.....	.....	.....	1,411	.....	.....	.....	100	
Rangpur	5,377	2,623	7,673	8,472	5	6,241	1,063	31,343	.....	139	.....	267	
Bogra	6,846	42,188	26,839	32	.....	1,676	668	26,116	.....	20	.....	.....	
Pabna	3,389	.....	1,382	36,861	1,377	108,946	446	124,734	.....	7	38	600	
Malda	702	.....	702	5,707	1,193	6,661	6,871	19,834	.....	.....	16	.....	
Oschi Bebar	417	.....	417	217	199	392	.....	1,225	.....	.....	.....	.....	
Dacca	6,817	1	6,828	1,648	86	31,819	7,345	37,736	.....	8,966	70	4,339	
Mymensingh	930	.....	930	467	.....	8,422	9,069	19,861	.....	427	26	1,340	
Faridpur	13,084	2,568	14,308	13,483	661	86,989	3,617	117,968	.....	263	7	.....	
Bakerganj	247,735	1,033	248,250	.....	.....	2,009	.....	251,392	.....	1	21	490	
Tippah (including Hill Tippah)	3,485	397	3,670	.....	.....	.....	396	4,195	.....	.....	.....	.....	
Noakhali	3	.....	3	.....	.....	783	.....	786	.....	.....	.....	1,000	
Chittagong	80,569	.....	80,339	.....	.....	8,884	.....	84,393	.....	3,314	.....	.....	
Chittagong Port	284	.....	284	.....	.....	.....	.....	284	.....	.....	.....	.....	
Total of Behal	2,492,066	1,071,692	3,162,873	47,967	9,807	737,382	52,796	4,050,313	10,228,149	14,780	19,758	6,70,449	
OTHER PROVINCES AND PLACES													
Bihar and Orissa	1,790	2,899	3,602	43,394	293	542,579	93,072	686,832	15,700,265	228	399	53,110	
Assam	128,866	122,009	319,294	326	34	4,560	164	324,668	3,263	3	13	3,325	
U. P. of Agra and Oudh	850	.....	850	524,969	9,229	188,417	8,306	721,771	.....	3,822	236	3,42,700	
Punjab	496	.....	496	2,896	1,642	58,675	.....	63,711	.....	2,426	163	8,664	
Sind and British Baluchistan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Central Provinces and Berar	.....	6	4	.....	.....	313	135	452	.....	32,810	13,082	6,57,254	
Bombay	.....	.....	.....	.....	1	47	.....	49	.....	2,423	28,967	1,64,00,437	
Madras	.....	.....	.....	2,626	.....	13,303	4	16,781	.....	8,174	8,849	19,07,317	
Burma	2,324,184	.....	2,324,184	868	.....	258,706	125,304	3,309,016	.....	729	.....	.....	
Rajputana and Central India	260	.....	260	.....	.....	.....	644	706	.....	.....	.....	1,59,300	
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	481	.....	24,000	
Mysore	.....	.....	.....	.....	.....	1,189	.....	1,189	.....	.....	1,178	2,71,260	
GRAND TOTAL	1919	3,457,313	1,207,106	6,311,664	663,020	20,604	1,003,870	384,303	8,983,455	26,001,673	65,889	68,724	2,04,00,708
	1918	2,923,687	886,698	3,290,398	1,910,641	10,684	1,761,380	182,640	7,006,698	18,712,775	33,174	76,662	1,07,85,753
	1917	1,811,107	549,079	2,154,251	3,262,679	66,603	1,691,318	184,380	7,227,071	25,423,246	65,666	119,560	86,34,671

(a) One maund of paddy is equivalent to 35 ears of rice.

(b) Excluding trade by sea (coastal trade).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



II.

## Canal, and Sea (Coastwise) in the three months, April to June, 1919.

Indigo	JUTE		Lac	OILSEEDS		Milk, raw	SUGAR		Tea, Indian	TOBACCO		Whence Imported
	Raw (d)	Gunny-bags (e)		Linseed	Rape and mustard		Refined	Un- refined		Unmanu- factured	Manu- factured	
Mds	Bales of 400 lbs 112	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL
...	...	90,128	4	533	989	...	...	1	4	8	13	Bardwan
...	...	8,484	38	375	1,446	...	...	3	...	...	...	Birbhum
...	...	4,638	37	...	...	...	...	...	...	64	33	Bankura
...	...	...	...	416	490	7	...	31,374	...	30	...	Midnapur
...	10,863	36,182,626	...	428	775	...	9	22,001	...	7,400	645	Hooghly
...	97,916	60,287,826	...	312	2,817	...	6,014	13,340	1	3,157	1,832	24-Parganas
...	2,393	6,390	...	19,417	1,115	68	314	5,593	...	4,596	3	Nadia
...	9,335	1,371	436	9,417	214	181	...	...	...	241	1,487	Murshidabad
...	1,198	7,393	...	1,398	2,384	...	...	49,891	...	1933	29	Jamora
...	2,642	6,483	...	304	876	...	...	600	...	...	...	Khulna
...	4,702	349	...	11,973	619	...	...	...	...	...	2	Rajahmahl
...	6,182	15,613	...	...	578	...	...	8	...	4	...	Dinejpur
...	36,337	1,476	13	...	2,699	...	...	...	133,333	141,339	3	Jalpaiguri
...	2,281	4,499	...	418	333	...	...	1	53,664	2,677	15	Darjeeling
...	61,635	6,723	...	4,333	160	...	...	...	...	53,594	6	Rangpur
...	14,099	1,848	...	3,367	1,176	...	...	3	3	...	...	Bogra
...	16,390	4,715	...	11,063	6,586	...	...	...	...	57	...	Pabna
...	1,768	869	18	1,457	274	60	...	...	...	...	...	Malda
...	12,302	779	...	...	317	...	...	...	...	16,380	...	Cooch Behar
...	303,210	9,371	...	1,368	1,381	...	...	49	...	16	4	Dacca
...	92,327	2,091	...	596	3,979	...	13	...	...	117	7	Mymensingh
...	16,480	1,723	...	3,178	7,034	...	35	...	...	91	13	Faridpur
...	1,169	4,367	...	803	199	...	...	...	...	...	...	Bakarganj
...	22,790	83	...	188	484	...	...	...	...	32	...	Tippura (including Hill Tippura)
...	...	2,280	...	1,323	...	...	...	...	...	...	...	Noakhali
...	...	2,002	...	...	...	...	...	...	1,621	...	...	Chittagong
...	...	...	...	...	...	...	...	...	...	...	...	Chittagong Port
...	537,620	54,711,495	566	71,985	26,324	316	6,296	112,671	187,940	236,156	4,079	Total of Bengal
OTHER PROVINCES AND PLACES												
210	61,691	24,140	78,417	1,035,039	63,621	...	884	10,406	1,339	108,457	2,438	Bihar and Orissa
...	51,968	26,363	8,917	61,843	49,180	101	1	2	366,113	...	13	Assam
189	...	264,345	38,593	501,176	344,589	...	1,356	5,573	306	264	234	U. P. of Agra and O. N.
...	...	42,353	...	...	116,922	...	...	...	...	17	11	Punjab
...	...	1,107	...	...	6,406	...	...	...	...	...	6	Sind and British Balu- chistan
...	...	12,916	6,290	59,843	2,169	...	...	...	...	16	37	Central Provinces and Berar
...	...	18,983	...	...	45,907	...	824	...	...	47	4,452	Dombay
...	...	943	183	690	1,193	...	7,413	16,396	...	44	12,901	Madras
...	...	1,200	8,214	...	...	...	...	1,669	...	4	10,771	Burma
...	...	31,936	765	9,814	10,039	...	...	...	...	30	...	Kanputana and Central India
...	...	...	...	...	...	...	...	...	...	...	...	Nizami's Territory
...	...	...	...	...	...	...	...	...	...	...	...	Mysore
398	(f) 651,299	86,195,679	181,915	1,740,180	874,496	417	16,764	151,800	485,797	372,944	14,972	1913
3,926	973,444	101,073,527	181,651	487,839	987,419	156	63,392	144,063	511,329	301,689	21,726	1914
629	480,696	173,406,935	127,753	605,415	1,146,448	903	76,696	130,373	412,935	279,176	17,749	1917
												GRAND TOTAL

(d) Excludes imports into the mills outside the Calcutta block, which are 372,100 bales, but includes imports into the Kidderpore Dock, namely, 18,893 bales.

(e) Including gunny cloth: 2 yards of cloth = 1 bag.

(f) Of this 370,385 bales came by rail, 252,976 bales by river, 5,349 bales by road, and 11,939 bales by sea.



TABLE III

Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the three months, April to June, 1919.

FOOD-GRAINS													
Routes	Rice	Paddy (a)	Wheat	Wheat flour	Gram and pulses	Other food-grains	Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (c)	Indigo		
	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs	Mds		
By rail	E. I. Railway...	186,889	186,419	406,614	11,271	679,006	89,133	18,714,447	6,490	633	8,86,981	183	
	E. B. Railway (including B. C. Railway)	541,930	384,604	77,506	8,866	349,021	30,378	1,898,547	1,077	139	1,31,647	76	
	A.-B. Railway...	1,006	81	...	...	891	...	...	...	7	1,280	...	
	B.-N. Railway...	130,804	32,309	2	...	33,577	1,303	4,947,729	89,314	46,322	1,91,61,934	...	
	B. & N.-W. Railway	306	...	187,018	1	106,382	34,883	...	18	11	1,760	114	
	D.-S. Railway...	...	...	...	...	...	...	...	...	...	...	...	
	Kaighat-Fulta Railway	60,659	41,530	...	...	...	...	...	...	...	...	...	
	Howrah-Amta and Howrah-Bankura Light Railways	36,329	2,661	...	17	2	...	...	...	...	9,930	...	
	By river steamer	Bengal ... and Bihar	211,539	7,966	7,844	86	32,051	30,115	...	12,316	183	1,09,082	...
		Orissa	...	...	2,300	...	13,393	2,867	...	34	...	...	...
Assam		41,437	91,784	526	30	901	184	3,263	3	6	1,188	...	
U. P. of Agra and Oudh		...	...	21	14	612	...	...	4	...	...	...	
By boat	1,353,694	846,978	4,791	323	125,497	1,337	1,062	1,137	18,337	1,69,000	...		
By road	187,890	10,789	...	...	1,368	...	36,636	293	3,137	2,16,289	...		
By sea	2,624,192	...	3,378	1	272,032	135,804	...	4,917	...	...	...		
Total	1919	5,457,213	1,307,106	663,080	20,608	1,803,870	264,303	26,001,673	65,389	64,734	2,06,06,708	338	
	1918	2,921,685	884,698	1,810,641	10,664	1,767,380	122,840	18,713,773	23,174	70,682	1,07,56,702	3,924	
	1917	1,811,107	349,979	3,269,679	64,603	1,591,318	154,396	25,442,546	65,666	110,560	86,53,673	639	

Routes	JUTE		Lao	OILSEEDS		Silk raw	SUGAR		Tea Indian	TOBACCO			
	Raw (d)	Gunny bags (e)		Linseed	Rape and mustard		Refined	Unrefined		Unmanufactured	Manufactured		
	Bales of 400 lbs	No.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds		
By rail	E. I. Railway...	10,368	344,311	59,954	482,982	624,571	.....	340	11,664	395	1,372	1,397	
	E. B. Railway (including B. C. Railway)	363,699	161,622	5,707	45,695	36,324	.....	.....	27,090	300,612	317,999	1,478	
	A.-B. Railway...	.....	19,557	225	5,827	.....	.....	1	.....	70,336	.....	.....	
	B.-N. Railway	687	20,489	54,799	32,420	5,963	.....	8,036	10,691	1,199	14,614	891	
	B. and N.-W. Railway	4,786	6,866	.....	1,085,888	147,615	.....	1,148	9,319	57	13,664	2	
	D. S. Railway	.....	.....	.....	.....	.....	.....	.....	.....	39,350	.....	.....	
	Kalkhat-Falta Railway	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
	Howrah-Amta and Howrah-Bankura Light Railways	306	12,302	.....	23	.....	.....	3	270	.....	1	7	
	By river steamer	Bengal ... and Bihar	370,578	31,693	.....	7,408	6,669	7	49	3,866	1,648	135	52
		Orissa	90	1,066	.....	.....	2,319	.....	5	.....	.....	2,079	6,407
Assam		34,835	8,307	2,006	83,665	31,513	61	.....	2	142,107	.....	10	
U. P. of Agra and Oudh		.....	387	.....	.....	325	.....	480	.....	.....	25	56	
By boat	.....	46,464	68,946,734	.....	3,331	3,316	.....	361	62,466	1	5,234	.....	
By road	.....	5,949	506,035	.....	64	.....	.....	5,646	14,989	.....	3,674	2,500	
By sea	.....	12,539	10,790	8,214	.....	815	.....	496	1,463	44	10,973	396	
Total	1919	631,299	85,186,679	181,913	1,740,180	874,496	417	16,764	161,600	456,737	373,644	14,972	
	1918	976,448	101,672,827	181,651	667,629	967,419	165	82,592	144,063	511,323	301,689	21,736	
	1917	480,846	112,406,983	187,743	625,216	1,146,446	902	76,694	130,273	413,335	379,175	17,749	

(a) One mound of paddy is equivalent to 26 coers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mills outside the Calcutta block, which are 873,490 bales, but includes imports into the Kidderpore Docks, namely, 18,898 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coastwise) in the three months, April to June, 1919.*

		COTTON TWIST AND YARN		COTTON PIECE-GOODS		Kerosene oil	Salt	
		Foreign	Indian	Foreign	Indian			
FOREIGN—		Mds	Mds	Rs	Rs	Mds	Mds	
From United Kingdom ...		2,752	.....	2,41,08,875	.....	5	277,242	
" Other countries ...		1,650	.....	61,00,558	.....	694,114	990,902	
Total ...		4,402	.....	2,02,16,883	.....	694,119	1,268,144	
COASTWISE—								
From British Ports in—								
Bihar and Orissa ...		14	.....	.....	.....	.....	.....	
Bombay ...		1,002	6,816	2,08,965	5,24,041	.....	.....	
Madras ...		.....	146	6,000	6,865	.....	.....	
Burma ...		183	61	14,19,267	29,400	691,582	.....	
Total ..		1,189	7,023	16,24,222	5,69,206	691,582	.....	
GRAND TOTAL ...		1919 ...	5,591	7,023	2,18,50,465	5,69,206	1,268,711	1,268,144
		1918 ...	26,240	65	6,08,04,492	8,960	1,307,974	2,149,218
		1917 ...	19,961	146	5,72,41,277	4,860	1,264,221	1,662,416



TABLE V

**Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the three months, April to June, 1919.**

	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat flour	Gram and pulse	Other food-grains	Total				
<b>Coastwise—</b>	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.
To British Ports in—												
Bengal ...	240	.....	240	.....	26	24	.....	210	.....	11	247	4,720
Bihar and Orissa	14,106	22,090	26,334	272	2,026	2,292	.....	22,217	.....	.....	1,168	.....
Madras ...	256,047	26,804	211,675	4,424	224	262,510	50	206,296	.....	.....	49	.....
Burma ...	2,745	.....	2,745	24,927	96,286	68,218	11,725	206,011	252,241	122	41,929	2,86,270
Total ...	276,127	108,694	244,126	29,626	97,972	260,146	11,725	1,142,793	252,241	173	42,733	2,22,040
<b>Foreign—</b>												
To United Kingdom	5	.....	5	80	.....	2,919	.....	2,004	2,014	1,512	.....	.....
.. Other countries	240,269	.....	240,269	2,741	15,666	116,229	8,084	662,669	2,058,024	22,716	9,828	11,421
Total ...	240,274	.....	240,274	2,821	15,666	119,248	8,084	664,673	2,061,038	24,227	9,828	11,421
<b>GRAND TOTAL</b>												
1919 ...	1,117,111	108,894	1,185,170	22,486	113,528	479,292	19,809	1,830,206	2,812,289	24,400	52,561	4,04,061
1918 ...	1,628,169	.....	1,628,169	29,602	109,414	408,226	16,127	2,091,228	707,662	6,668	21,980	2,90,370
1917 ...	209,102	1	209,103	29,816	252,040	262,452	12,787	756,207	6,966,377	21,262	20,908	12,40,880

	JUTE				OILSEEDS			SUGAR		Tea, Indian	TOBACCO	
	Indigo	Raw	Gunny bags (b)	Lac	Linseed	Rape and mustard	Silk, raw	Refined	Un-refined		Un-manufactured	Manufactured
<b>Coastwise—</b>	Mds	Bales of 400 lbs.	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
To British Ports in—												
Bengal ...	.....	.....	622	.....	.....	.....	.....	1,096	17	2	26	27
Bihar and Orissa	.....	.....	4,700	.....	.....	126	.....	465	.....	.....	708	59
Madras ...	161	9	26,900	105	.....	1,264	.....	20,419	.....	.....	.....	.....
Burma ...	.....	107	10,748,268	142	.....	2,991	.....	11,498	286	2,640	22,251	1,027
Total ...	161	116	10,856,801	247	.....	4,281	.....	42,478	303	2,642	24,745	1,107
<b>Foreign—</b>												
To United Kingdom	2,272	226,216	24,578,500	20,768	762,292	.....	286	2	.....	287,127	2,542	17
.. Other countries	1,521	200,972	192,920,551	24,248	226,616	5,068	512	2,718	4	42,580	11,200	1,477
Total ...	2,693	427,221	227,497,351	112,216	1,092,908	5,068	1,248	6,720	4	629,107	12,742	1,494
<b>GRAND TOTAL</b>												
1919 ...	2,654	427,407	228,247,552	112,568	1,092,908	5,469	1,248	49,198	207	629,726	44,507	2,601
1918 ...	10,286	212,227	209,467,524	101,352	217,209	24,202	281	4,645	119	702,425	12,224	1,406
1917 ...	10,129	220,278	222,271,228	121,610	222,287	61,229	286	292	774	212,221	22,222	1,220

(a) One maund of paddy is equivalent to 25 coers of rice.  
(b) Including gunny cloth, 2 yards of cloth = 1 bag.



TABLE VI

*Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the three months, April to June, 1919.*

Whither exported	COTTON TWIST & YARN		COTTON PIECEGOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budge-Budge‡	
<b>BENGAL</b>	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
Burdwan. ....	92	1,908	14,16,074	96,640	245,107	11,378	51,719	72,877
Birbhum. ....	77	4,384	8,21,800	64,000	1,23,410	72	9,916	86,102
Bankura. ....	97	2,331	2,69,962	800	70,820	36	...	29,000
Midnapur. ....	5,102	4,711	17,19,839	1,17,360	181,111	8,612	44,327	84,156
Hooghly. ....	2,074	124	4,34,186	51,559	88,261	19,861	47,844	60,016
24 Parganas. ....	506	924	2,60,303	1,24,098	424,017	26,647	29,086	64,144
Nadia. ....	1,030	11,581	38,12,770	2,07,780	459,624	1,363	19,801	71,055
Murshidabad. ....	94	2,668	10,72,638	1,11,680	249,262	202	20,622	72,390
Jessore. ....	784	1,906	7,08,231	1,66,280	108,691	1,619	11,844	42,826
Khulna. ....	1,114	448	6,62,127	1,94,880	117,466	2,241	12,696	19,808
Kajetah. ....	84	288	12,37,298	1,61,200	105,780	1,001	5,081	27,062
Dinajpur. ....	...	763	11,69,079	3,09,600	145,245	612	12,072	68,661
Jaipalguri. ....	19	1,768	12,68,920	2,02,200	107,461	252	8,714	48,680
Darjeeling. ....	271	840	12,08,999	83,620	89,093	286	10,672	46,992
Raipur. ....	280	1,192	26,86,056	4,09,440	101,166	12	12,639	127,266
Bogra. ....	16	619	18,68,692	9,07,360	97,534	1861	16,221	72,222
Patna. ....	2,052	2,310	14,64,280	6,23,200	199,736	76	84,856	71,402
Maldah. ....	20	1,719	6,18,099	1,74,400	87,658	...	277	26,607
Oooch Behar. ....	2	168	7,32,027	2,720	72,900	108	4,209	26,622
Dacca. ....	6,098	1,716	29,10,807	5,15,000	87,246	272	151,172	116,989
Mymensingh. ....	2,169	1,398	17,86,299	16,78,361	31,692	166	24,880	110,084
Faridpur. ....	4,646	793	2,74,822	2,18,660	125,009	2,492	10,661	67,616
Bakerganj. ....	2,763	51	6,90,217	6,76,360	176,117	719	10,064	24,649
Tippera (including Hill Tippera). ....	1,702	8,186	19,70,581	40,622	51,636	28	...	22,606
Noakhali. ....	1,149	2,364	5,26,260	1,53,920	19,108	23	...	660
Chittagong. ....	2,810	129	1,86,642	1,19,650	153,672	22	...	514
Chittagong Port. ....	22	266	9,16,272	2,03,720	4,246	...	...	16
<b>Total of Bengal. ....</b>	<b>26,026</b>	<b>52,602</b>	<b>2,19,20,566</b>	<b>81,74,128</b>	<b>2,512,351</b>	<b>80,266</b>	<b>682,224</b>	<b>1,421,210</b>
<b>OTHER PROVINCES AND PLACES</b>								
Bihar and Orissa. ....	4,268	21,658	1,68,06,622	42,12,721	4,261,614	2,904	292,951	749,262
Assam. ....	5,245	5,946	61,64,214	10,34,621	668,646	2,556	7,693	198,722
U. P. of Agra and Oudh. ....	591	1,062	22,75,267	19,26,729	5,128,772	942	262,062	7,296
Punjab. ....	1,099	448	24,10,224	1,10,244	5,916,177	14	19,090	8
Sind and British Baluchistan. ....	...	...	1,06,769	...	1,879,486	...	...	...
Central Provinces and Berar. ....	7	285	5,27,688	60,126	785,847	652	4,468	1,697
Bombay. ....	23	124	7,89,280	2,410	2,998,638	222	176	...
Madras. ....	1,079	2,702	2,04,207	2,22,299	2,697,627	2,124	...	119
Burma. ....	4,907	41,929	16,96,629	2,89,210	10,748,268	...	...	14
Rajputana and Central India. ....	28	160	4,91,227	20,620	615,616	999	15,210	...
Kashmir State. ....	...	...	1,228	...	...	...	...	...
Nizam's Territory. ....	...	2	1,62,621	980	192,110	2,780	...	...
Mysore. ....	...	...	8,401	...	122,184	...	...	...
Port Blair. ....	...	247	8,500	4,720	622	...	...	...
<b>1919. ....</b>	<b>52,412</b>	<b>129,287</b>	<b>7,29,49,962</b>	<b>1,67,79,905</b>	<b>39,329,796</b>	<b>92,421</b>	<b>1,181,122</b>	<b>2,385,639</b>
<b>GRAND TOTAL. 1919. ....</b>	<b>56,842</b>	<b>94,604</b>	<b>6,62,68,290</b>	<b>69,81,695</b>	<b>28,938,062</b>	<b>78,161</b>	<b>1,114,467</b>	<b>2,609,788</b>
<b>1917. ....</b>	<b>49,249</b>	<b>112,946</b>	<b>6,41,69,274</b>	<b>62,25,865</b>	<b>28,618,689</b>	<b>107,226</b>	<b>1,222,276</b>	<b>1,841,961</b>

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 2 yards of cloth = 1 bag.

‡ The exports of kerosene oil from Budge-Budge to Calcutta in the three months of April to June 1919, were 162,491 maunds as against 262,212 maunds and 210,041 maunds in the corresponding periods of 1918 and 1917, respectively.



TABLE VII

*Statement of the Routes by which the Articles enumerated in Table No. VI were exported from the Calcutta Trade Block in the three months, April to June, 1919*

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny-bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budge-Budge	
	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
E. I. Railway ...	3,335	20,439	1,68,74,746	33,08,370	5,484,447	13,090	374,107	489,184
E. B. Railway (including B. C. Railway)	1,239	81,719	1,84,38,977	80,71,820	2,379,371	10,337	186,611	624,589
A.-B. Railway ...	703	7,680	84,74,439	4,49,491	103,739	718	196	49,434
B.-N. Railway ...	733	17,704	31,98,668	6,30,634	1,489,694	3,631	600	353,383
B. & N. W. Railway ...	68	4,680	1,02,83,235	35,18,654	3,300,593	436	117,379	169,403
O. R. Railway ...	213	36	31,63,308	1,55,320	630,904	441	148,376	17
Howrah-Amra and Howrah-Sankhal Light Railways	719	...	1,77,659	...	19,393	6,346	...	11,083
By rail ...								
N.-W. Railway ...	847	103	9,48,698	8,180	6,467,914	13	7,396	...
G. I. P. Railway ...	60	133	10,83,784	18,011	3,184,000	1,189	1,801	...
B. R. & C. I. Railway ...	75	153	5,16,689	9,440	844,318	113	1,668	...
M. & S. M. Railway ...	776	1,984	2,04,767	1,36,380	3,003,801	3,619	...	30
S. I. Railway ...	...	34	...	3,578	416,037	...	...	...
J. B. Railway ...	...	9	1,36,460	6,308	76,431	...	435	...
N. G. B. Railway ...	...	3	1,63,631	960	96,423	3,730	...	...
Other Railways ...	34	3	1,51,347	65,763	93,045	393	10,579	6,083
By river steamer								
Bengal ...	29,431	5,806	89,06,316	33,91,839	841,771	1,774	369,453	369,303
Bihar and Orissa ...	605	480	2,66,060	48,600	1,843,914	8	...	506
Assam ...	4,896	1,344	31,06,837	11,30,380	486,035	3,637	5,689	100,004
U. P. of Agra and Oudh ...	19	6	50,004	9,760	148,870	...	...	...
By boat	3,686	...	2,13,760	9,800	101,146	31,994	97,311	330,677
.. road	1,837	186	3,01,130	1,68,667	131,243	30,184	3,764	40,374
.. sea	6,183	13,733	17,00,501	3,98,040	10,850,501	...	6,080	2,796
Total								
1919 ...	61,413	135,367	7,33,49,583	1,67,79,905	39,339,798	95,431	1,161,138	2,365,636
1918 ...	55,842	94,664	6,52,89,390	69,81,698	38,938,033	78,161	1,114,467	2,039,795
1917 ...	45,349	118,946	6,41,59,374	63,23,585	38,516,669	107,836	1,353,376	1,841,661

\* The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth. 2 yards of cloth = 1 bag.

DEPARTMENT OF STATISTICS, INDIA,

G. FINDLAY SHIRRAS,

September 2, 1919.

Director of Statistics.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 22nd August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	6 A.M. ...	25.37'	101.83'	127.20'	Steady		124.30'	117.70'	
	Rajmahal ...	6 " ...	26.85'	56.319'	83.169'	...	0.15'	83.16'	76.86'	
	Goalundo ...	8 hours ...	22.50'	...	...	Steady		22.50'	23.10'	
Brahmaputra	Gauhati ...	8 A.M. ...	17.40'	148.76'	166.16'	...	0.80'	169.16'	175.46'	
	Serajganj ...	12 hours ...	35.70'	...	...	Steady		...	...	
	Dibrugarh ...	8 A.M. ...	14.40'	...	...	...	0.10'	...	...	
	Bhairab Bazar ...	6 hours ...	14.83'	1.61'	16.44'	...	0.25'	...	...	
Meghna	Chandpur ...	14.30 " ...	11.00'	1.61'	12.61'	...	0.50'	...	...	
	Fenchuganj ...	7 A.M. ...	24.30'	...	...	0.30'	...	...	...	
Dhaleswari	Sabhar ...	7 " ...	25.80'	- 8.62'	17.18'	Steady		...	...	
Bhagirathi	Swarupganj ...	6 " ...	27.54'	1.509'	29.049'	Steady		28.20'	25.24"	
Damodar	Kdipur ...	6 " ...	12.25'	92.58'	104.83'	...	2.67'	...	...	
Lakhya	Narayanganj ...	...	20.14'	- 5.59'	14.55'	...	0.11'	...	...	
Madaripur Pill Route	Takerhat ...	6 A.M. ...	12.50'	- 0.599'	11.901'	Steady		...	...	







Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 28th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	24th Aug. 1919	25.27	101.83	127.10	Steady		123.20	119.00	
	Rajmahal ...	24th " "	26.70	56.319	83.019	...	0.10	82.46	77.41	
	Goalundo ...	24th " "	22.40	...	...	...	0.10	22.20	23.50	
Brahmaputra	Gauhati ...	24th " "	16.60	148.76	165.36	...	0.50	167.86	175.36	
	Serajganj ...	24th " "	35.40	...	...	...	0.30	...	...	
	Dibrugarh ...	24th " "	14.00	...	...	...	0.30	...	...	
Meghna	Bhairab Bazar ...	24th " "	14.79	1.61	16.40	0.04	...	...	...	
	Chandpur ...	24th " "	12.00	1.61	13.61	0.50	...	...	...	
	Fenchuganj ...	24th " "	24.60	...	...	0.10	...	...	...	
Dhaleswari	Sabhar ...	24th " "	25.70	- 8.62	17.08	Steady		...	...	
Bhagirathi	Swarupganj ...	24th " "	27.60	1.509	29.109	0.01	...	27.83	25.90	
Damodar	Edilpur ...	24th " "	11.17	92.58	103.75	...	0.33	...	...	
Lakhya	Narayanganj ...	24th " "	20.58	- 5.59	14.99	0.41	...	...	...	
Madaripur Bil Route	Takerhat ...	24th " "	12.50	- 0.599	11.901	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 28th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	25th Aug. 1919	6 A.M. ...	25-27'	101-83'	127-10'	Steady	122-70'	120-20'	
	Rajmahal ...	25th "	6 "	26-55'	56-319'	82-869'	...	81-71'	78-36'	
	Goalundo ...	25th "	8 hours ...	22-40'	...	...	Steady	22-00'	23-60'	
Brahmaputra	Gauhati ...	25th "	8 A.M. ...	16-10'	148-76'	164-86'	...	0-50'	167-36'	175-46'
	Serajganj ...	25th "	12 hours ...	35-40'	...	...	Steady	...	...	...
	Dibrugarh ...	28th "	8 A.M. ...	13-80'	...	...	...	0-20'	...	...
Meghna	Bhairab Bazar ...	25th "	6 hours ...	14-83'	1-61'	16-44'	0-04'	...	...	...
	Chandpur ...	25th "	6-30 "	12-00'	1-61'	13-61'	Steady	...	...	...
	Fenchuganj ...	25th "	7 A.M. "	24-75'	...	...	0-15'	...	...	...
Dhaleswari	Sabhar ...	25th "	7 "	25-70'	8-62'	17-08'	Steady	...	...	...
Bhagirathi	Swarupganj ...	25th "	6 "	27-58'	1-509'	29-089'	...	0-02'	27-71'	26-86'
Damodar	Edilpur ..	25th "	6 "	10-67'	92-58'	103-25'	...	0-50'	...	...
Lakhya	Narayanganj	25th "	...	20-85'	5-59'	15-26'	0-27'	...	...	...
Madaripur Bil Route	Takerhat ...	25th "	6 A.M. ...	12-50'	0-599'	11-901'	Steady	...	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 28th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to above P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	26th Aug. 1919	6 A.M.	24.97'	101.83'	126.80'	...	0.30'	122.30'	121.70'
	Rajmahal ...	26th "	6 "	26.50'	56.319'	82.819'	...	0.05'	81.46'	79.71'
	Goalundo ...	26th "	8 hours	22.50'	...	...	0.10'	...	21.60'	23.90'
Brahmaputra	Gauhati ...	26th "	8 A.M.	15.70'	148.76'	164.46'	...	0.40'	167.06'	175.76'
	Seraiganj ...	26th "	12 hours	34.90'	...	...	...	0.50'	...	...
	Dibrugarh ...	26th "	8 A.M.	13.60'	...	...	...	0.20'	...	...
Meghna	Bhairab Bazar ...	26th "	6 hours	15.08'	1.61'	16.69'	0.25'	...	...	...
	Chandpur ...	26th "	7 "	12.25'	1.61'	13.86'	0.25'	...	...	...
	Fenchuganj ...	26th "	7 A.M.	24.80'	...	...	0.05'	...	...	...
Dhaleswari	Sabhar ...	26th "	7 "	25.70'	-8.62'	17.08'	Steady		...	...
Bhagirathi	Swarupganj ...	26th "	6 "	27.55'	1.509'	29.059'	...	0.03'	27.48'	28.00'
Damodar	Eltilpur ...	26th "	6 "	7.75'	92.58'	100.33'	...	2.92'	...	...
Lakhya	Narayanganj ...	26th "	...	21.42'	-5.50'	15.83'	0.57'	...	...	...
Madaripur Bil Route	Takerhat ...	26th "	6 A.M.	12.60'	-0.599'	12.001'	0.40'	...	...	...







Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 28th August 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	Compared with previous day's height.		Height above P. W. D. datum of same date in—		Remarks.
						Rise.	Fall.	1917.	1918.	
Ganges	28th Aug. 1919	6 A.M. ...	24.27	101.83'	126.10'	...	0.40'	121.70'	123.00'	
	28th "	6 "	26.20'	56.319'	82.519'	...	0.10'	80.56'	81.31'	
	28th "	8 hours ...	22.50'	...	...	...	0.20'	20.80'	24.70'	
Brahmaputra	28th "	8 A.M. ...	14.70'	148.76'	163.46'	...	0.30'	167.06'	176.86'	
	28th "	12 hours ...	33.80'	...	...	...	1.10'	...	...	
	28th "	8 A.M. ...	13.95'	...	...	0.45'	...	...	...	
Meghna	28th "	6 hours	15.42'	1.61'	17.03'	0.17'	...	...	...	
	28th "	8 "	12.42'	1.61'	14.03'	...	0.16'	...	...	
	28th "	7 A.M. ...	24.75'	...	...	...	0.05'	...	...	
Dhaleswari	28th "	7 "	25.90'	- 8.62'	17.28'	0.10'	...	...	...	
	28th "	6 "	27.39'	1.509'	28.899'	...	0.10'	26.63'	29.70'	
Damodar	28th "	6 "	6.75'	92.58'	99.33'	...	0.75'	...	...	
Lakhya	28th "	...	21.29'	- 5.59'	15.70'	...	0.15'	...	...	
Madaripur Bil Route	28th "	6 A.M. ...	13.00'	- 0.599'	12.401'	0.20'	...	...	...	



## Vital Statistics of the Towns with a population of 10,000

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still-births).	Still-born number registered.	Obolera.	Small pox.	Plague.
Burdwan ...	1	Burdwan ...	20,527	15,394	35,921	16	...	8	4	...
	2	Raniganj ...	8,417	7,080	15,497	13	...	...	...	...
	3	Asansol ...	12,486	9,433	21,919	45	1	24	...	...
Bankura ...	4	Bankura ...	12,156	11,297	23,453	37	...	...	...	...
	5	Vishnupur ...	10,025	10,453	20,478	22	...	19	1	...
	6	Sonamukhi ...	6,254	7,021	13,275	6	...	1	...	...
Midnapore ...	7	Midnapore ...	17,577	15,163	32,740	22	...	5	...	...
	8	Ghatal ...	6,216	5,848	12,064	5	2	...	1	...
Hooghly ...	9	Hooghly and Chinsura ...	15,817	13,099	28,916	51	...	...	...	...
	10	Seraampore ...	19,639	12,439	32,078	40	...	7	1	...
	11	Rishra Konnagore ...	10,724	6,792	17,516	16	...	...	...	...
	12	Baidyabati ...	Figures not available			13	...	1	1	...
Howrah ...	13	Bhadreswar ...				11	...	3	2	...
	14	Chandani ...				8	...	...	...	...
	15	Howrah ...	114,829	64,560	179,389	258	...	78	53	...
	16	Bally ...	14,217	8,177	22,394	29	...	13	5	...
24-Parganas	17	Cosaijore-Chitpur ...	30,793	17,385	48,178	52	2	16	19	...
	18	Maniktala ...	31,735	22,032	53,767	50	11	12	12	...
	19	South Suburban ...	17,683	13,850	31,533	49	...	2	...	...
	20	Tollygunge ...	11,183	7,250	18,433	28	...	2	1	...
	21	Garden Reach ...	27,665	17,630	45,295	50	...	11	1	...
	22	Budge-Budge ...	11,529	6,453	17,982	9	...	2	...	...
	23	Baranagar ...	14,982	10,913	25,895	25	1	5	6	...
	24	Kamarhati ...	11,243	6,772	18,015	15	...	5	4	...
	25	Rajpur ...	5,762	5,845	11,607	14	...	...	...	...
	26	South Dum-Dum ...	7,760	5,114	12,874	14	...	1	...	...
	27	Barrackpore ...	11,357	6,944	18,301	8	...	7	...	...
	28	Panihati ...	6,339	4,779	11,118	9	...	2	1	...
	29	North Barrackpore ...	9,780	6,340	16,120	19	...	5	1	...
	30	Tittagarh ...	31,225	18,946	45,171	31	5	13	4	...
	31	Garulia ...	7,876	3,704	11,580	4	...	1	2	...
	32	Naihati ...	11,685	6,534	18,219	13	...	23	1	...
	33	Bhatpara ...	34,739	15,675	50,414	28	1	37	5	...
	34	Basirhat ...	9,517	8,814	18,331	20	...	...	...	...
	35	Baduria ...	7,058	6,622	13,680	20	...	...	...	...
Calcutta ...	36	Calcutta ...	607,674	288,393	896,067	1,102	79	276	208	13
Nadia ...	37	Krishnagar ...	11,767	11,708	23,475	11	...	...	...	...
	38	Nadia or Nabadwip ...	5,821	6,659	12,480	11	...	3	...	...
	39	Santipur ...	12,186	14,517	26,703	29	...	...	1	...



and over, of Bengal, for the month of June 1919.

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total of all causes.			Total of corresponding month of previous year.			No.	Towns.
					Male.	Female.	Total.	Male.	Female.	Total.		
32	21	8	3	19	56	39	95	44	34	78	1	Burdwan.
5	1	1	2	4	8	5	13	15	4	19	2	Raniganj.
20	2	2	3	2	34	19	53	17	18	35	3	Asansol.
11	...	2	...	15	16	12	28	11	14	25	4	Bankura.
9	4	2	1	4	21	19	40	10	16	26	5	Vishnupur.
10	2	2	1	4	11	9	20	11	6	17	6	Sonamukhi.
27	6	4	...	7	18	31	49	21	15	36	7	Midnapore.
10	3	1	1	...	7	9	16	7	12	19	8	Ghatal.
12	7	6	2	7	19	15	34	28	24	52	9	Hooghly and Chinsura.
13	12	7	1	8	24	25	49	26	15	41	10	Serampore.
13	2	1	1	4	8	13	21	17	9	26	11	Rishra Konnagore.
10	3	3	...	6	14	10	24	14	9	23	12	Baidyabati.
4	4	1	...	3	4	13	17	4	3	7	13	Bhadreswar.
13	2	2	...	3	11	9	20	5	4	9	14	Champdani
210	56	101	9	117	345	279	624	239	164	403	15	Howrah.
15	8	1	...	4	21	20	41	15	8	25	16	Bally.
29	7	29	2	24	68	52	120	58	51	109	17	Consipore-Chitpur.
31	11	33	...	43	73	69	142	73	61	134	18	Maniktala.
18	2	5	1	3	22	9	31	23	16	39	19	South Suburban.
9	...	1	...	...	6	7	13	11	11	22	20	Tollygunge.
38	10	8	4	25	71	26	97	44	33	77	21	Garden Reach.
1	1	1	...	3	5	3	8	13	4	17	22	Budge-Budge.
24	21	7	4	21	51	37	88	25	13	38	23	Baranagore.
27	4	1	...	6	34	13	47	18	3	21	24	Kamarhati.
12	1	...	...	...	8	5	13	9	5	14	25	Rajpur.
6	2	2	...	2	9	4	13	18	8	26	26	South Dum-Dum.
11	2	1	...	3	17	7	24	1	1	2	27	Barrackpore.
11	2	2	...	3	15	6	21	7	4	11	28	Panihati.
14	3	5	1	5	23	11	34	10	9	19	29	North Barrackpore.
77	7	...	1	19	76	45	121	33	29	62	30	Titagarh.
...	1	...	...	...	4	...	4	1	2	3	31	Garulia.
14	1	1	...	6	23	23	46	10	5	15	32	Naihati.
32	3	1	...	4	52	30	82	46	18	64	33	Bhatpara.
14	1	...	1	2	10	8	18	19	15	34	34	Basirhat.
6	...	...	...	1	5	2	7	9	7	16	35	Baduria.
305	204	470	40	834	1,348	1,002	2,350	1,131	806	1,937	36	Calcutta.
4	...	4	...	1	5	4	9	7	4	11	37	Kriehnagar.
17	...	...	1	...	12	9	21	8	11	19	38	Nadia or Nabadwip.
22	1	4	1	12	18	23	41	13	23	36	39	Santipur.



**Vital Statistics of the Towns with a population of 10,000**

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births.)	Still-born number registered.	Cholera.	Small- pox.	Plague.
Murshidabad	40	Berhampore ...	14,302	11,841	26,143	29	2	...	...	...
	41	Murshidabad ...	6,259	6,410	12,669	5	...	...	...	...
	42	Ajimganj ...	6,725	5,602	12,327	7	...	6	2	...
	43	Kandi ...	6,212	6,426	12,638	20	...	...	3	...
	44	Jangipur ...	5,493	5,915	11,408	16	...	4	...	...
Khulna	45	Khulna ...	7,983	5,013	12,996	16	...	8	...	...
	46	Satkhira ...	5,802	5,100	10,902	1	...	...	...	...
Rajshahi	47	Rampur-Boalia ...	13,057	10,349	23,406	44	1	...	2	...
Dinajpur	48	Dinajpur ...	9,648	6,297	15,945	9	...	...	3	...
Jalpaiguri	49	Jalpaiguri ...	7,547	4,218	11,765	5	...	...	1	...
Darjeeling	50	Darjeeling ...	11,631	7,374	19,005	17	1	1	...	...
Rangpur	51	Rangpur ...	10,509	5,920	16,429	11	...	...	...	...
Pabna	52	Pabna ...	10,056	9,218	19,274	12	...	...	1	...
	53	Sirajganj ...	13,236	11,541	24,777	15	1	1	1	...
Malda	54	English Bazar ...	7,697	6,625	14,322	15	...	...	3	...
	55	Nawabganj ...	11,122	12,200	23,322	25	...	3	...	...
Dacca	56	Dacca ...	63,091	45,460	108,551	165	7	1	41	...
	57	Narayanganj ...	18,738	9,138	27,876	40	2	...	1	...
Mymensingh	58	Mymensingh ...	13,462	6,391	19,853	15	1	4	1	...
	59	Notrakona ...	8,018	5,722	13,740	3	...	11	1	...
	60	Jamalpur ...	11,728	9,381	21,109	27	...	...	2	...
	61	Sherpur ...	8,516	7,075	15,591	22	...	...	...	...
	62	Kishoreganj ...	9,508	8,518	18,026	20	4	1	1	...
	63	Bajitpur ...	5,447	5,386	10,833	3	...	5	...	...
	64	Tangail ...	8,493	7,869	16,362	7	...	...	...	...
Faridpur	65	Faridpur ...	8,017	5,114	13,131	18	...	1	...	...
	66	Madaripur ...	10,549	8,524	19,073	30	1	3	3	...
Bakarganj	67	Barisal ...	15,488	6,985	22,473	14	...	2	...	...
	68	Pirojpur ...	6,523	5,473	11,996	25	...	9	...	...
Chittagong	69	Chittagong ...	18,779	9,987	28,766	38	2	3	...	...
Tippera	70	Comilla ...	13,706	8,986	22,692	28	...	38	...	...
	71	Brahmanbaria ...	11,671	10,624	22,295	32	...	4	1	...
	72	Chandpur ...	9,062	8,655	12,717	14	...	...	...	...
Total of month...			...	...	2,618,159	2,951	124	687	395	13
Total of corresponding month of previous year.			...	...	...	3,450	110	409	113	54
Increase + or decrease —			...	...	...	- 499	+ 14	+ 278	+ 282	- 41

**REMARKS—**

1. The above table is compiled from returns collected by the Municipalities and submitted to this office by the Civil Surgeons. Taken as a whole, the statistics are in a few instances obviously incomplete.
2. The vital statistics of Municipalities with a population of less than 10,000 have been excluded from this statement and incorporated in the statement of the Government of India, Education and Health.
3. The birth and death ratios per 1,000 per annum have been omitted from this statement according to the Government of India, Education and Health.

CALCUTTA,  
The 28th August 1919.



and over, of Bengal, for the month of June 1919—conold.

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total of all causes.			Total of corresponding month of previous year.			No.	Towns.
					Male.	Female.	Total.	Male.	Female.	Total.		
7	8	4	1	18	28	10	38	15	12	27	40	Berhampore.
11	...	...	...	...	7	4	11	7	13	20	41	Murshidabad.
6	2	1	...	3	11	9	20	9	2	11	42	Ajminganj.
4	...	...	...	5	6	6	12	8	6	14	43	Kandi.
17	...	...	...	...	7	14	21	6	1	7	44	Jangipur.
15	2	1	...	...	17	9	26	11	5	16	54	Khulua.
3	1	1	...	1	4	2	6	4	2	6	46	Satkhira.
9	2	...	1	6	13	7	20	14	14	28	47	Rampur-Boalia.
6	6	1	...	2	8	9	17	5	5	10	48	Dinajpur.
4	1	2	3	4	9	6	15	10	5	15	49	Jalpaiguri
15	1	9	1	4	23	8	31	17	8	25	50	Darjeeling
9	1	1	...	6	8	9	17	15	8	23	51	Rangpur.
7	...	...	...	4	7	5	12	5	4	9	52	Pabna.
22	...	1	...	3	14	14	28	3	3	6	53	Sirajganj.
6	...	2	...	1	9	3	12	9	11	20	54	English-Bazar.
4	...	...	...	...	6	1	7	5	4	9	55	Nawabganj.
105	13	10	7	57	122	112	234	101	67	168	56	Dacca.
18	1	2	1	16	28	13	39	14	12	26	57	Narayanganj.
20	2	2	1	4	21	13	34	9	4	13	58	Mymensingh.
8	...	...	...	...	13	7	20	6	1	7	59	Netrokona.
23	1	1	2	4	20	13	33	11	16	27	60	Jamalpur.
5	...	1	2	10	11	7	18	13	10	23	61	Sherpur.
7	10	1	...	5	15	10	25	13	9	22	62	Kishoreganj.
7	4	...	...	5	8	13	21	9	4	13	63	Bajitpur.
5	...	...	...	2	4	3	7	8	5	13	64	Tangail.
8	1	1	...	1	7	5	12	9	7	16	65	Faridpur.
10	1	1	1	7	16	10	26	13	13	26	66	Maduripur.
11	3	...	...	4	17	3	20	12	6	18	67	Barisal.
7	1	1	1	2	16	5	21	7	1	8	68	Pirojpur.
15	2	3	...	9	18	14	32	39	35	74	69	Chittagong.
8	5	...	...	4	33	22	55	9	6	15	70	Comilla.
12	2	4	...	10	19	14	33	17	9	26	71	Brahmanbaria
9	1	...	...	6	5	11	16	8	3	11	72	Chandpur.
1,559	482	769	101	1,427	3,120	2,313	5,433	...	...	...		
1,222	445	586	102	1,388	2,514	1,805	4,319	2,514	1,805	4,319		
+337	+37	+183	-1	+39	+606	+508	+1,114	...	...	...		

whole the table possesses a relative value, although the figures for individual towns probably only approximate to the actual in a proportion reported in the returns for districts—vide Bengal Government, Municipal Department, letter No. 118San., dated the 8th February 1918. San Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



**Vital Statistics of the Districts excluding Towns, of Bengal, with a population**

Division.	No.	Districts.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births).	Still-born number registered.	Cholera.	Small- pox.	Plague.
Burdwan ...	1	Burdwan ...	728,894	736,140	1,465,034	2,562	6	218	48	...
	2	Birbhum ...	463,838	471,635	935,473	1,957	34	60	30	...
	3	Bankura ...	534,150	547,314	1,081,464	2,845	1	110	38	...
	4	Midnapore ...	1,386,921	1,389,476	2,776,397	4,754	88	257	153	...
	5	Hooghly and Seram- pore.	481,989	484,729	966,718	1,436	4	81	133	...
	6	Howrah ...	369,595	372,124	741,719	1,430	11	80	85	...
Presidency ...	7	24-Parganas ...	1,005,789	941,802	1,947,591	3,334	22	98	54	...
	8	Nadia ...	782,806	772,382	1,555,188	2,065	35	185	64	...
	9	Murshidabad ...	639,301	657,788	1,297,089	2,192	91	285	59	...
	10	Jessore ...	901,092	857,172	1,758,264	2,362	94	124	23	...
	11	Khulna ...	695,794	647,074	1,342,868	2,034	62	148	16	...
Rajshahi ...	12	Rajshahi ...	742,149	715,032	1,457,181	2,165	115	217	128	...
	13	Dinajpur ...	880,228	791,690	1,671,918	2,872	106	161	1,824	...
	14	Jalpaiguri ...	482,681	408,214	890,895	1,593	107	701	73	...
	15	Darjeeling ...	130,463	116,082	246,545	488	31	389	16	...
	16	Rangpur ...	1,244,208	1,124,693	2,368,901	3,518	212	293	1,106	...
	17	Bogra ...	502,526	481,041	983,567	1,281	44	45	358	...
	18	Pabna ...	700,299	684,236	1,384,535	1,899	97	342	410	...
	19	Malda ...	479,728	486,787	966,515	1,446	22	143	168	...
Dacca ...	20	Dacca ...	1,395,861	1,428,114	2,823,975	3,535	189	102	199	...
	21	Mymensingh ...	2,274,431	2,136,477	4,410,908	6,019	334	816	486	...
	22	Faaidpur ...	1,056,398	1,033,317	2,089,710	2,776	79	59	71	...
	23	Bakarganj ...	1,222,824	1,171,618	2,394,442	3,711	57	162	33	...
Chittagong ...	24	Chittagong ...	704,058	775,609	1,479,667	3,399	270	850	16	...
	25	Noakhali ...	645,898	656,192	1,302,090	2,272	164	114	39	...
	26	Tippura ...	1,208,642	1,163,792	2,372,434	3,331	215	250	493	...
	27	Chittagong Tracts.							Not under	
Total of month for Bengal ...			21,660,558	21,050,530	42,711,088	67,066	2,490	6,290	6,123	...
Total of corresponding month of previous year ...			...	...	...	86,976	3,380	2,811	1,008	...
Increase + or decrease - ...			...	...	...	19,910	- 890	3,479	5,115	...

REMARKS—1. The above table is compiled from returns collected by the thana police officers and submitted to this office by the to the actual.

2. The vital statistics of municipalities with a population of less than 10,000 have been included in this statement with

3. Divisional totals and the birth and death ratios per 1,000 per annum have been omitted from the statement according

CALCUTTA.

The 28th August 1919.



of 10,000 and over, for the month of June 1919.

REGISTERED.

Fever.	Dysentery and Diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.			Number.	Districts.
					Male.	Female.	Total.	Male.	Female.	Total.		
3,185	69	12	92	460	2,157	1,897	4,054	1,648	1,377	3,025	1	Burdwan.
1,985	12	2	37	170	1,262	1,034	2,296	947	863	1,810	2	Birbhum.
1,786	43	4	32	431	1,315	1,129	2,444	1,194	1,129	2,323	3	Bankura.
4,636	85	14	154	876	3,290	2,885	6,175	2,118	1,809	3,927	4	Midnapore.
1,589	85	25	47	220	1,146	1,023	2,171	945	834	1,779	5	Hooghly and Serampore.
620	221	54	58	246	753	611	1,364	578	430	1,008	6	Howrah.
2,037	50	45	137	344	1,490	1,275	2,765	1,468	1,148	2,616	7	24-Parganas.
2,479	6	14	88	274	1,683	1,427	3,110	1,782	1,532	3,314	8	Nadia.
2,147	6	22	89	399	1,592	1,325	2,917	1,409	1,179	2,588	9	Murshidabad.
2,443	1	3	100	197	1,570	1,321	2,891	1,464	1,196	2,660	10	Jessore.
1,917	19	7	97	489	1,475	1,218	2,693	1,156	1,017	2,173	11	Khulna.
2,523	2	2	88	170	1,697	1,433	3,130	1,488	1,356	2,844	12	Rajshahi.
3,238	6	7	74	79	2,894	2,495	5,389	2,033	1,615	3,648	13	Dinajpur.
2,146	220	40	12	168	1,835	1,525	3,360	1,323	1,127	2,450	14	Jalpaiguri.
878	186	13	4	162	835	818	1,653	441	370	811	15	Darjeeling.
3,923	6	3	72	63	2,969	2,503	5,472	2,370	1,929	4,299	16	Rangpur.
1,233	19	10	48	110	1,010	813	1,823	869	668	1,537	17	Bogra.
2,693	11	3	49	116	1,950	1,674	3,624	1,527	1,238	2,765	18	Pabna.
1,697	...	1	45	139	1,191	1,002	2,193	1,124	804	1,928	19	Malda.
2,784	85	13	89	700	2,160	1,812	3,972	2,060	1,629	3,689	20	Dacca.
5,941	60	23	129	767	4,393	3,829	8,222	3,753	3,286	7,039	21	Mymensingh.
2,733	34	9	119	459	1,899	1,585	3,484	1,613	1,371	2,984	22	Faridpur.
3,494	133	12	121	1,084	2,776	2,263	5,039	2,087	1,644	3,731	23	Bakarganj.
4,018	49	...	53	80	2,516	2,548	5,064	3,123	3,081	6,204	24	Chittagong.
2,488	23	...	80	298	1,567	1,475	3,042	1,925	2,073	3,998	25	Nonkhali.
3,655	144	8	70	532	2,917	2,235	5,152	2,110	1,757	3,867	26	Tippera.
registration.											27	Chittagong Hill Tracts.
68,265	1,575	346	1,934	8,943	50,344	43,152	93,496				...	
61,532	1,515	284	1,863	10,064	42,555	36,462	79,017	42,555	36,462	79,017		
+6,733	+60	+62	+151	-1,121	+7,789	+6,690	+14,479					

Civil Surgeons. Taken as a whole the table possesses a relative value, although the figures for individual districts probably only approximate those of the respective districts as per Government of Bengal. Municipal Department, letter No. 1163an., dated the 8th February 1918. to the Government of India, Education Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 30th August 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 30TH AUGUST 1919			WEEK ENDING SATURDAY, THE 31ST AUGUST 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Ru.		Mds.	Ru.
Rice and paddy ...	416	31,440	539	607	96,810	1,597
Jute ...	61	26,840	286	68	23,262†	293
Firewood ...	70	45,500	684	170	66,925	1,074
Other articles ...	704	201,751	1,922	781	170,620	1,985
Total ...	1,251	305,581	3,431	1,826	357,417	4,949
Empty boats and rafts ...	474	...	1,276	582	...	1,774
GRAND TOTAL ...	1,725	305,581	4,707	2,408	357,417	6,723

Weight by canal measurement ... Mds. 39,850  
Ditto ditto ... 36,323

CALCUTTA.

The 2nd September 1919.

G. J. ST. C. SEDGLEY,

Under-Secy. to the Govt. of Bengal.

*Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 23rd August 1919.*

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
17th Aug.	64.0	...	...	...	...	64.0	
18th "	64.05	...	...	...	...	64.15	
19th "	64.1	...	...	...	...	64.05	
20th "	64.0	...	...	...	...	64.0	
21st "	63.9	...	...	...	...	63.85	
22nd "	63.8	...	...	...	...	63.75	
23rd "	63.75	...	...	...	...	63.7	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.8	Taken at high tide.
6th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	Taken at low tide.
31st "	1918	...	...	...	69.12	
28rd February	1907	...	...	...	61.06	
13th "	1908	...	...	...	61.06	
12th March	1912	...	...	...	61.06	
7th "	1914	...	...	...	60.60	
22nd February	1915	...	...	...	60.30	
16th "	1916	...	...	...	60.60	
8rd March	1917	...	...	...	61.0	
21st February	1918	...	...	...	61.40	

Dacca.

The 26th August 1919.

W. J. KERR,

Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 23rd August 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
17th August	8 A.M.	Zero of gauge is at mean sea-level.	60.90	56.96	B. M. on College step corrected (P. W. D.) 64.93.
18th "	8 "		61.05	57.01	
19th "	8 "		15.20	56.81	
20th "	8 "		61.45	56.56	
21st "	8 "		61.40	56.41	
22nd "	8 "		61.40	56.41	
23rd "	8 "		61.28	56.41	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No.  $\frac{2876}{6-88-17}$ , dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4621, dated 17th February 1919.

		Old value.	According to P. W. D. datum.
The previous year	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	Lowest	41.70 on 21st April 1918	36.89
Record	Highest	69.25 on 26th August 1879	64.44
Do.	Ditto	69.08 on 9th September 1885	61.27
Do.	Ditto	68.30 on 25th August 1906	60.47
Do.	Ditto	68.21 on 26th August 1890	60.40
Do.	Lowest	37.68 on 26th April 1884	32.82
Do.	Ditto	38.13 on 14th—15th April 1883	33.32
Do.	Ditto	39.02 on 21st—22nd April 1897	34.21
Do.	Ditto	39.28 on 6th—7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,

S. C. BHATTACHARJI,

The 23rd August 1919.

for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 23rd August 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
17th August	7 A.M.	22.5	22.5	23.0	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
18th "	7 "	22.5	22.5	23.1	
19th "	7 "	22.6	22.6	23.1	
20th "	7 "	22.6	22.6	23.1	
21st "	7 "	22.5	22.5	23.1	
22nd "	7 "	22.5	22.5	23.1	
23rd "	7 "	22.5	22.5	23.2	

The previous year	Highest water-level	25.2 on 1st September 1918.
Ditto	Lowest	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	Highest	25.75 on 26th August 1906.
Record (average flood in Brahmaputra and Ganges)	Ditto	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	Ditto	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	Ditto	25.66 on 31st July 1900.
Do.	Lowest	1.0 on 6th February 1914.
Do.	Ditto	2.42 on 13th March 1908.
Do.	Ditto	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	Ditto	3.16 on 9th to 11th March 1887.
Do.	Ditto	3.16 on 16th, 17th and 20th to 21st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1908.

FARIDPUR,

R. K. GHOSE,

The 25th August 1919.

for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 10, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 30TH AUGUST 1919.

THE rainfall during the week was general and sufficient. Transplantation has been completed. The prospects of the autumn and winter paddy crops are favourable. Distress is decreasing. Seventy-one relief works were open during the week. The number of persons relieved on works was 8,998. The number of persons in receipt of gratuitous relief was 15,752, viz., 10,604 on cash doles in 125 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The grand total of persons relieved was 24,750. The increase in the number of persons on relief works was due to the completion of field operations, and the decrease in the numbers in receipt of cash doles was due to better agricultural prospects. The number of persons relieved on private works was 655. The charitable societies also relieved 627 persons on weekly rice doles and 900 on daily rice doles and by cooked food. During the week three grain-looting cases were reported. Public health is generally good. The outbreak of malaria in certain localities is reported. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5 to 5½ seers in the rupee. Burma rice is being sold.

M. C. McALPIN,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 4th September 1919.



**RESOLUTION ON THE REPORT ON THE POLICE ADMINISTRATION IN THE BENGAL PRESIDENCY FOR THE YEAR 1918.**

**GOVERNMENT OF BENGAL.**

**POLITICAL DEPARTMENT.**

**Police Branch.**

CALCUTTA, THE 3RD SEPTEMBER 1919.

**RESOLUTION—No. 3306P.J.**

**READ—**

The Report on Police Administration in the Bengal Presidency for the year 1918.

**Read also—**

The Report on Police Administration in the Bengal Presidency for the year 1917 and the Resolution of Government thereon.

MR. C. W. C. PLOWDEN, C.I.E., held the post of Inspector-General of Police throughout the year, except for a period of three weeks, when he was on privilege leave, and Mr. T. C. Simpson acted for him in addition to his own duties as Assistant Inspector-General.

2. The Military Police Battalion under Major Macpherson fully maintained its reputation for discipline and efficiency, in spite of many demands on its services for unaccustomed duties which interfered with its regular training. During the year sanction was received to the addition of a company to the battalion, and recruitment is now going on. Since the close of the year, the General Officer Commanding the Presidency Brigade has inspected the battalion, and remarked that the standard of drill and training is very satisfactory, considering that the battalion has, since the outbreak of the war, been without its full complement of military officers. It is hoped that this defect will soon be removed.

3. The superior cadre of the service was increased during the year by the addition of an appointment of Additional Superintendent for the Faridpur district. Four temporary appointments of deputy superintendents were also made permanent.

The strength of the subordinate police force was increased by about 200 men, mainly in connection with the establishment of new investigating centres. The special armed force was increased in Chittagong, Dacca and Jalpaiguri, and since the close of the year sanction has been given to an increase in the emergency force in Noakhali.

Service in the armed branch continues to be unpopular. The Inspector-General of Police thinks that before long the question of increasing the pay of the branch will have to be considered, as the extra rupee allowed to the armed police does not compensate the men for the loss of the easier conditions and cheaper living in the mufassal enjoyed by the unarmed branch.

4. The number of recruits enlisted during the year was 2,911, of whom 1,847 or 63 per cent. were Bengalis, a larger proportion than in any previous year. The improvement in local recruiting is very satisfactory, and would be more rapid but for the difficulty that a large proportion of the candidates for enlistment fail to come up to the required standard of height and chest measurement, though the latter has been reduced, in the case of Bengalis, to 30 inches. Steps are being taken to recruit men of the Bengali Regiment who desire to join the police. The difficulty of securing upcountry recruits is however increasing. The men who formerly enlisted now prefer employment in the mills and collieries, and though a special recruiting party was deputed to the United Provinces only 445 recruits were obtained. At the close of the year, there were over 500



vacancies among constables, 134 of which were in the district of the 24-Parganas, where, as also in Howrah and Hooghly, it is difficult to induce local men to enlist. The probationary sub-inspectors appointed during the year included 40 graduates, and a few direct appointments were made in the rank of head constables, mostly from among candidates who had failed to secure sub-inspectorships. Sanction was given to a scheme for the direct appointment of graduates in law to the post of court inspector up to a limit of 10 per cent. of the annual vacancies.

5. The figures under the various heads of casualties rose from 1,999 to 2,598. The number of resignations rose from 666 in 1917 to 1,215 in the year under review. The Inspector-General attributes this large increase to various causes, not the least important of which is the refusal of leave on account of the inadequacy of the leave reserve. An increase in the scale of the ordinary reserve of head constables and constables recently sanctioned by the Secretary of State will improve the position in this respect.

The year was particularly unhealthy on account of the wide outbreak of influenza all over the country. An increase in mortality was therefore inevitable, while admissions into hospital rose by 1,440. Improvement in the housing of the police in the mufassal is urgently called for, but progress in this respect has been much hampered during the war owing to lack of funds.

6. There was a further increase in the number of officers and men who were rewarded either in money or with good service marks, and the amount of money disbursed in this way exceeded that spent last year by more than Rs. 13,000. The proportion of officers and men judiciously punished for all offences remained stationary at 1·3 per cent. of the force. Of the 450 criminal cases against the police which were disposed of during the year, only 57 ended in conviction. Five police officers were accused of torture, but it is satisfactory that none of these charges were proved, while, with the exception of two sub-inspectors convicted of extortion and one constable convicted of bribery, the majority of the cases in which convictions were obtained were petty offences committed by constables. Of 30 civil suits instituted against the police, 17 were dismissed and 13 were pending at the close of the year.

7. During the year, the river police fleet was strengthened by the addition of five steam launches, two floating thanas, one *panway* boat, four *ghasi* and forty-one *dinghi* boats. Twelve more launches are still required to complete the number sanctioned. The river police patrols have been able to effect a marked decrease in river crime in several districts. A notorious river dacoit, who was arrested during the year, admitted that, owing to the effective patrolling of the larger rivers, he and his fellow criminals had shifted the scene of their operations to the *khals* and smaller rivers. As usual, a feature of the work of the river police was the rescue of boats and crews in stormy weather. Altogether the officers and men of the river police rescued 78 persons from drowning, in many cases at great personal risk.

8. A revised curriculum of training for probationary sub-inspectors was introduced at the Sardah Training College at the beginning of the year, the main object being to give more time for practical work. The institution has grown considerably since it was first established, and a proposal for the appointment of an Assistant Principal is now under the consideration of Government.

9. The reports on the working of the village police are on the whole satisfactory, and the Inspector-General has furnished interesting details of several plucky acts of *chaukidars* in arresting criminals. The *dafadari* system, inaugurated in the Madaripur subdivision of the Faridpur district in 1914 as an experiment, has achieved a considerable measure of success. In Dacca, the *panchayats* continued to co-operate with the police in successful preventive work, but elsewhere, though on the whole the presidents of *panchayats* and the circle officers are willing to give the police every assistance, there is room for more regular and systematic co-operation between these three authorities. The instructions issued by the District Magistrate of Dacca have brought about a great improvement in this respect in the



Dacca district, and similar action might well be taken elsewhere. In spite of the remarks made on this subject in previous years, there are still indications that, in some districts, insufficient liberality is shown in rewarding *chaukidars* for good work. The Inspector-General of Police suggests that this may be due to the fact that Superintendents of Police are not kept fully informed of the state of the reward fund and of the amount available for distribution, but this difficulty can easily be removed by arrangement between the District Magistrate and the Superintendent, and cannot be accepted as an excuse for unsatisfactory *chaukidari* administration.

10. The amount spent on the police during the year 1918-19 was Rs. 1,05,83,092, as against Rs. 99,22,652 in the previous year, the increase being due mainly to additions to the force. A sum of Rs. 18 lakhs was spent on police buildings. The whole of the special grant given by the Government of India for non-recurring expenditure in connection with the reorganization of the police in the area which now forms the Presidency of Bengal has been spent, and any further expenditure on police buildings will have to be met from provincial revenues. No final estimate of the total cost of putting the police buildings of the province on a satisfactory footing has been drawn up, but the estimated cost of the works administratively approved for execution when funds are available amounts to over Rs. 80 lakhs.

11. There was a small decrease in the total volume of cognizable crime, and under most of the important heads, except robbery and dacoity. Including 12 unreported cases of the previous year and 82 *hât*-looting cases, the figure under dacoity rose from 437 in 1917 to 638, though burglaries decreased by 1,052 cases. The year was one of considerable economic stress, and this factor, together with the general unrest caused by the war, is largely responsible for the increase. While the restoration of peace, the conviction of some gangs and the vigorous preventive measures which have been taken will, it is hoped, effect an improvement, the restoration of normal conditions cannot be expected until the economic situation improves.

12. The results of the cases tried by the Courts compare favourably with those of other provinces in India and afford a satisfactory indication of the care with which cases are investigated. During the year 1,570 cases were found maliciously false by Magistrates, and prosecutions were undertaken in 448 cases, convictions being obtained in 163 cases. The results show an improvement over those of previous year and in some districts were particularly satisfactory. Elsewhere the matter requires closer attention at the hands both of trying Magistrates and of inspecting officers.

It is satisfactory to find that Magistrates are exercising greater discretion in sending petty cases to the police for enquiry, but in some districts there is still room for improvement in this respect. His Excellency in Council regrets to find further deterioration in the prompt disposal of cases by Magistrates. Attention was called to this matter last year, but little improvement can be expected until Magistrates realise that it is their duty to show greater firmness in refusing unnecessary adjournments.

13. There was a further decrease in revolutionary crime during the year, the number of dacoities being only three as compared with nine in 1917 and twenty-four in 1916. For the first time since 1907, no member of the public lost his life at the hands of the revolutionary party. The Governor in Council has, however, to deplore the loss of three brave police officers who were killed while attempting to arrest anarchists. A number of prominent revolutionaries were arrested and some significant seizures of arms and other implements of revolutionary crime were made. The party which seeks to attain its ends by violent crime is still alive, but the record of the year is a hopeful augury of the final success of the officers of the Intelligence Branch in their struggle with revolutionary conspiracy.

14. The Criminal Investigation Department was again largely occupied with measures for the repression of dacoity, and after protracted enquiry succeeded in bringing to justice many organised gangs in Bakarganj, Khulna, Midnapore, Hooghly, Howrah and other districts of the Presidency. Great credit is due to the officers of the Criminal Investigation Department for their successful prosecution of the Darjeeling gang case, which was



instituted against a number of persons who, with the assistance of certain members of the Darjeeling-Himalayan Railway staff, had for some time been systematically stealing goods in transit. The department also secured the conviction of eight persons for instituting fraudulent civil suits. The training school which was opened at Howrah in 1917 for the purpose of training officers in modern methods of detection has continued to do useful work, and good reports are being received of the officers who have completed the course. Some changes are being made in the curriculum as a consequence of the experience gained; the main object being to make the course of study more practical.

Ten gangs were declared under the Criminal Tribes Act during the year. The total number of gangs of habitual criminals which have been brought under control by the application of the provisions of the Act is now 58, and the total number of persons registered under the Act is 4,116.

15. The record of the year's work may be regarded as satisfactory. The force continued to be hampered by the absence of many officers of the Imperial service on military duty, and though the causes of unrest persisted, the situation has always been well in hand. The discipline of the force has been good and there have been few charges of serious misconduct against officers above the rank of constable. His Excellency in Council has read with pleasure the list of officers of all ranks who have been commended by the Inspector-General. The special acknowledgments of Government are due to Mr. Plowden, who has recently retired after 35 years' service in the Bengal Police. During this period he has seen the introduction of many important improvements and reforms for which he himself has been in no small measure responsible, and the Department has lost in him an officer of wide experience and much ability.

ORDER.—Ordered that copies of the Resolution be forwarded to the Inspector-General of Police, the Commissioner of Police, Calcutta, and all Commissioners of Divisions, for information.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Governor in Council,

J. H. KERR,

Chief Secy. to the Govt. of Bengal.



# REPORT ON THE WORKING OF THE LICENCED WAREHOUSE AND FIRE BRIGADE ACT FOR THE YEAR ENDING 31ST MARCH 1919.

## NOTIFICATION.

No. 3412M.—The 2nd September 1919.—The following is published for general information under section 41 of the Licensed Warehouse and Fire Brigade Act, 1893 (Bengal Act I of 1893).

S. W. GOODE,  
Offg. Secy. to the Govt. of Bengal.

No.  $\frac{F. B. 49-19}{1080}$ , dated Calcutta, the 15th August 1919,

From—R. CLARKE, Esq., C.I.E., Commissioner of Police, Calcutta,  
To—The Secy. to the Govt. of Bengal, Municipal Dept.

In accordance with section 41, sub-section (2) of the Licensed Warehouse and Fire Brigade Act (I of 1893), I have the honour to submit herewith the report of the Chief Officer on the working of the Fire Brigade and Ambulance Department for the year ending the 31st March 1919.

No.  $\frac{F. B. 49-19}{888}$ , dated Calcutta, the 15th July 1919.

From—B. A. WESTBROOK, Esq., Chief Officer, Fire Brigade, Calcutta,  
To—The Secy. to the Govt. of Bengal, Municipal Department.  
(Through R. Clarke, Esq., C.I.E., Commissioner of Police, Calcutta.)

I HAVE the honour to submit the following report on the working of the Calcutta Fire Brigade for the financial year ending 31st March 1919.

On my return from military service on the 2nd day of May 1918, I resumed charge of the Fire Brigade. During my absence station officer Jarrett efficiently carried out these duties.

2. **Financial Statement.**—The statement of the receipts and expenditure and payments made by the municipalities within the jurisdiction of the Fire Brigade Act, I of 1893, is given in Appendix I.

3. **Fires, etc.**—The total number of fires, or supposed fires, dealt with by the Fire Brigade during the year under review is 540, being an increase of 113 as compared with the previous year, and resulting in—

Fires	...	...	...	421 (331 in 1917-18).
False alarms	...	...	...	113 ( 88 in 1917-18).
Calls for special service	...	...	...	12 ( 8 in 1917-18).

It is unsatisfactory to note that no less than 83 of the above false alarms were assumed to have been given wilfully. In seven instances the offenders were arrested by the police, but I regret to say that the light sentences imposed have not had a deterrent effect. However, the Fire Alarm system has proved to be of benefit, and undoubtedly many serious fires have been averted owing to the rapid means by which the Brigade can now be communicated with.

3. Twenty-four fires occurred in premises licensed under the Licensed Warehouse and Fire Brigade Act, I of 1893, as compared with 15 in the previous year. The nature of the trades requiring licences under this Act are enumerated in Appendix XVII—

On one	day 9	fires or supposed fires occurred	...	9
On one	day 8	ditto	...	8
On two	days 7	ditto	...	14
On one	day 6	ditto	...	6
On six	days 5	ditto	...	80
On twenty	days 4	ditto	...	80
On thirty-five	days 3	ditto	...	105
On eighty-four	days 2	ditto	...	168
On one hundred and				
• twenty	• days 1	ditto	...	120
			Total	540



Summaries are given in the Appendix showing—

- The district in which fires or supposed fires occurred (Appendix III).
- The number of fires on every day and month throughout the year (Appendix IV).
- Daily and hourly summary of fires or supposed fires (Appendix V).

The actual number of calls received during the year is 825 (588 in 1917-18), which figure included several instances where more than one call was received for the same fire. The means by which these calls were transmitted to the Brigade are given in Appendix II.

**4. Fire Loss.**—The damage caused by fire and water during the year is Rs. 15,50,274 (Rs. 7,82,835 in 1917-18), being an increase of Rs. 5,76,605 over the average for the past eight years. The increase of fire loss is mainly due to several serious fires in the jute presses in the Chitpur area during the latter part of the year, but I am glad to be able to report that the average damage per fire during the current year is Rs. 2,771 as compared with Rs. 4,727 for the past eight years. In practically every instance of serious fires there was delay in calling the Fire Brigade.

Summaries are given in Appendix showing—

- Damage caused by fire, etc., in various districts (Appendix VI).
- Classification of fires and calls (Appendix VII).
- Means by which fires were extinguished (Appendix VIII).
- Causes of fires and buildings affected (Appendix XV).
- Comparative statement for the past ten years (Appendix XVIII).

**5. Fire Reports.**—Short reports of fires (Rs. 1,000 damage and over), are given in Appendix IX.

**6. Appliances.**—Appendix X shows the present distribution of the principal appliances in use by the Brigade, and Appendix XI gives the number of times each appliance has been turned out in response to fire calls, with monthly figures.

It is estimated that motor appliances travelled 5,343½ miles and horse-drawn appliances 302 miles during the year in responding to and returning from calls.

Two more motor fire engines are now on order, but delivery has not been effected owing to war. It is, however, anticipated that these machines will be delivered shortly.

Throughout the year the appliances have been maintained in good working order by the Fire Brigade staff, notwithstanding the difficulties experienced in obtaining spare parts and shortage of material.

**7. Fire Stations.**—Appendix XII gives the number of times each station has been turned out in response to fire calls, together with monthly figures.

I regret to say that the headquarters of the Fire Brigade are still situated in the premises temporarily hired from the Samavaya Corporation, Limited. These premises are not satisfactory and involve a large rental. Various sites have been selected for the permanent Fire Brigade headquarters, but unfortunately these sites have been required for other purposes. However, a sum of Rs. 30,000 has been allocated to the cost of building for new headquarters, and it is hoped that suitable site will soon be found. At present it is anticipated that the site now occupied by the Corporation Gowkhana, District No. III (Lower Circular Road), will be utilised for this purpose.

In 1917 the District Fire Brigade station in Halliday Street for the protection of the Barabazar area had to be vacated owing to the Calcutta Improvement Trust requiring the land for road widening. Premises were temporarily hired at Entally for the men and machinery formerly at this Fire station. Unfortunately this temporary station is at a considerable distance from the area which it protects, but I am glad to say that a suitable site has been found in Halliday Street, and plans are now being prepared for the re-erection of a District Fire station adequate for the work which it will be called upon to do. In the forthcoming budget application has been made for a sum to cover the cost of the building, and I anticipate that building this District Fire



station will be commenced at a very early date. The Barabazar area comprises exceptional fire risks, and owing to the very congested state of the streets with slow moving traffic, considerable time is lost in arriving at a fire in this area from the present stations.

Plans are prepared for accommodation of additional appliances and men at the District Fire station, Chitpur. It is hoped that this work will shortly be taken in hand as this District Fire station protects the industrial area of Chitpur and Cossipur, comprising numerous jute presses, etc. Undoubtedly when this station is more adequately equipped considerable saving can be effected in the serious fires which constantly occur in this area. From Appendix VI it will be seen that the majority of the fire loss has occurred in the Chitpur area.

The District Fire station at Howrah remains the same, and I regret to say that it is situated in an exceptionally unhealthy position. I trust that arrangements will be made for it to be re-built on a more central and healthy site.

Negotiations are now in progress with the Commissioners for the Port of Calcutta to erect a District station at the Kidderpore Docks. This station will primarily protect the docks, but will also respond to the calls in the Kidderpore, Watgunge and Garden Reach areas, also to other districts when required. It is suggested that this station shall be equipped by men of the Calcutta Fire Brigade, which will obviate the necessity for the Commissioners of the Port of Calcutta maintaining a fire staff of their own.

When this station is erected it is proposed to vacate the existing Fire Stations at Garden Reach and Watgunge.

For the protection of the districts of Sova Bazar, Darmahata, etc., it is hoped that arrangements will be made to provide a Fire station in this area which comprises very severe fire risks.

A Fire station in this area as proposed will be of great value as it will work in conjunction with the District Fire station at Chitpur and undoubtedly will considerably improve the efficiency of the work of the Fire Brigade, especially in the northern end of the town.

**8. Staff.**—The total strength of the Fire Brigade is 221, and notwithstanding the large increase of work the Fire Brigade is called upon to do, the number of the fire-fighting staff remains practically as it was seven years ago.

The general conduct and discipline has been good. A large number of changes have necessarily taken place owing to men proceeding on active service.

During the past few years the Brigade has been very short-handed, and the strain on the men at times has been considerable. It is now hoped that, on demobilisation, a suitable class of men will again be enlisted in the Fire Brigade.

Further it is hoped that as new Fire stations are erected the strength of the Fire Brigade will be adequately increased. The existing establishment is insufficient for the work, and makes little provision for leave and sickness.

A revised scale of pay is now before Government. Unfortunately the pay has not increased in ratio to the cost of living, and an enhancement of salaries will be much appreciated by all ranks. The present scale compares unfavourably with that offered by private concerns and accounts for a large number of changes of personnel in the Brigade.

The following is the present scale of pay up to the rank of station officer :—

				Rs.	
Station officers	...	...	...	250—15—325	per month.
Ditto	...	...	...	200—10—250	ditto.
Engineers	...	...	...	150—10—200	ditto.



(One engineer receiving a personal allowance of Rs. 50 per month for being in charge of workshops.)

					Rs.	
Firemen	...	...	...	...	125—5—150	per month.
Tindals	...	...	...	...	(4)	35 per month.
Do	...	...	...	...	(5)	30 ditto.
Do	...	...	...	...	(6)	25 ditto.
Khalasies	...	...	...	...	(25)	20 ditto.
Do.	...	...	...	...	(100)	18 ditto.
Do.	...	...	...	...	(20)	16 ditto.

Under Government order No. 638 T.M., dated 27th August 1918, a storekeeper has been sanctioned and has been entertained from the 1st November 1918. The pay of the syces has been increased to Rs. 12 under Government order No. 2385 M., dated 23rd September 1918.

9. **Fatalities and Accidents.**—Short details of fires and calls involving loss of life and accidents are given in Appendix XIV.

I am glad to be able to report that the members of the Calcutta Fire Brigade have been remarkably free from serious accidents, especially when considering the dangerous nature of the work involved at fires in jute presses, warehouses, etc., where, owing to expansion of jute when wet and buildings of inferior construction, walls so rapidly collapse, often with very little warning.

The most serious accident to a member of the Fire Brigade occurred on March 9th at the Canal Jute Press, Chitpur, when engineer Tucker had the misfortune to fall through a hole in the roof. Engineer Tucker had been engaged in demolishing dangerous walls, and in stepping backwards on to the roof he fell down about 22 feet. He was fortunate in receiving injuries to his right arm only. The position of Engineer Tucker was for a time extremely dangerous as the walls surrounding him were almost on the point of falling. Engineer Tucker was quickly conveyed to a safe position and a very few minutes after this the walls collapsed.

The total number of fatalities during the year are 10 as compared with 7 in the previous year. Of these 6 are cases of suicide by burning.

First aid has been rendered in numerous cases by the Fire Brigade with the materials carried on the fire appliances.

10. **Horses.**—No change has been made in the horses. Sixteen are in commission, but on arrival of additional motor fire appliances it is hoped to cut down this number. But for the difficulty in obtaining motor fire appliances due to the war the motorisation of the Brigade would probably have been effected before this.

11. **Water-supply.**—For the purpose of reporting on the water-supply the area protected by the Fire Brigade must be divided into four districts, viz., the city of Calcutta, Chitpur, Howrah and Garden Reach and Maniktala.

The water for fire-extinguishing is supplied throughout the city of Calcutta by means of mains and hydrants on the unfiltered water system. In cases of necessity arrangements are made to give connection to a small number of the filtered water mains.

In several instances the water-supply in Calcutta has been found inadequate and hydrants have been found out of order. However, the Water department is making endeavours to improve the supply, but much remains to be done. Unfortunately in Calcutta the waste of unfiltered water is excessive, principally through hydrants being opened by unauthorised persons and taps left running. If stricter supervision could be exercised over these points improvement may be effected. In cases where it has been found that the mains are too small estimates have been put up to the Corporation for increasing the size of the mains, but owing to the shortage of pipes little progress has been possible in this direction.



Another difficulty in connection with the unfiltered water-supply is the large amount of shells, stones, etc., which have accumulated in the mains. When there is any extra flow, such as occurs at a fire, these foreign substances very frequently choke the hydrants in use, and consequently during the progress of a fire sometimes it is necessary to remove a fire engine to a fresh hydrant, which of course entails much delay.

So far as Chitpur is concerned a really dangerous state of affairs exists and the time is rapidly approaching when the Fire Brigade will be powerless to deal with fires in this district, as no mains are provided for fire extinguishing, and the ponds, which have up to the present been relied upon for providing water for fire extinguishing, are rapidly being filled up on sanitary grounds.

The Chitpur district comprises an exceedingly important industrial area, and it is hoped that early arrangements will be made to provide an adequate water-supply.

Now that hostilities have ceased and it is possible to provide a new pumping plant for the Mullick Ghat pumping station (Calcutta), the suggestion is made that the existing pumping machinery at Mullick Ghat should be reinstated at the north end of Calcutta and mains laid throughout Chitpur area so that the benefit of this machinery can be extended to the industrial area in the Cossipur-Chitpur municipality. The supply of water will also be available for sanitation and road-watering.

The same remarks apply to Howrah. Undoubtedly serious fires in either of the above districts must result as a consequence of the utterly inadequate water-supply.

Owing to the lack of water in certain parts of Howrah the Fire Brigade is unable to cope with fires such as may occur and extreme difficulty will be experienced in preventing such fires from unduly spreading, especially as the existing fire-boat belonging to the Port Commissioners cannot approach near to the shore owing to its deep draught. I understand, however, that a scheme for installing an unfiltered water-supply throughout Howrah is now under consideration.

Garden Reach and Maniktala, although not so congested as the above districts, have no system of water-supply and again in these areas tanks are continuously being filled up.

At present the floating fire-engine belonging to the Commissioners of the Port of Calcutta is utilised at practically every fire within reasonable reach of the river and where mains are not provided.

In many cases in order to converge the necessary number of streams of water at fires as many as one to two hundred lengths of hose, each of 75 feet, have had to be used. It will be realised that tackling of fire under this condition takes an excessive amount of time and a large percentage of the efficiency of the streams of water is lost owing to friction of hose.

Owing to the districts which are so inadequately provided with water the pumping plant and hose of the Fire Brigade will have to be materially increased in the near future. In many instances it will be necessary to utilise fire-engines in relays to obtain the requisite water pressure at a fire, and as has been before pointed out, the conditions are becoming considerably worse as ponds are filled up.

The provision of fire mains, especially in industrial areas, requires urgent consideration.

The fire-boat still remains under the control of the Port Commissioners, but it is used by the Fire Brigade on all occasions when required for extinguishing fires on, or near the banks of, the river. The question of transfer of the control of the fire-boat to the Fire Brigade is now before Government, and it is hoped that this question will be settled shortly, as efficient co-operation in working is not obtained owing to dual authority and training and insufficient crew to man the fire appliances of the fire-boat.



It is hoped that arrangements will be made to expedite the delivery of the fire-float now on order by the Port Commissioners as increasing reliance has to be placed on floating pumps to supply water for land fire-engines at fires in the vicinity of the river; in fact in many cases now it is practically the only means of water-supply.

For several years past it has been pointed out that the existing fire-float is inadequate. It is very old, slow steaming, deep draught, insufficient pumping capacity, and frequently out of repair.

I have to thank the officers of the Water Works department of the Calcutta Corporation for their endeavours to improve the water-supply and for their attention to the various complaints which have been made.

## 12. Street Fire Alarms, Telephones and Electrical communications.—

Appendix II shows the means by which fire calls have been transmitted to the Fire Brigade.

Whilst it is satisfactory to note that many serious fires have been averted owing to the facilities installed for calling the Fire Brigade quickly, there have also been several cases where fire alarms have not been operated as quickly as they ought to have been, notably at the fire which occurred at the Theatre Royal, and various fires at Chitpur. However, the public no doubt are increasingly appreciating the Fire Alarm system, and the following figures show that considerable benefit has been derived therefrom.

In 224 cases calls were received by one or more fire alarms only, and in 57 cases calls were received first by fire alarms and followed by other means of calling the Fire Brigade.

In 182 cases calls were received by one or more public telephones only, and in 31 cases calls were received first by public telephone, and followed by other means of calling the Fire Brigade.

In 22 cases calls were received from firemen on "look-out" duty only, and in five cases calls were received first from firemen on "look-out" duty and followed by other means of calling the Fire Brigade.

In 17 cases calls were received by messengers only, and in two cases calls were received first by messengers and followed by other means of calling the Fire Brigade.

Street fire alarms were actually used to call the Fire Brigade on 315 occasions, either as the primary or subsequent means as above. This is about 59 per cent. of the total number of calls.

Arrangements are being made for all places of public amusement, etc., to be in direct telephonic communication with the Fire Brigade, and by this means it is hoped that in all cases of theatre-fires very early information will be received by the Fire Brigade.

My thanks are due to the Bengal Telephone Company for their efficiency in keeping the Fire Alarm system and telephones in good working order, and for their continuous interest in all matters appertaining to the Fire Brigade work.

Appendix XVI gives the position of street fire alarms in commission. There are now 125 in use.

**13. Inspection Department, Theatres and places of public amusements.**—Much work has been done in endeavouring to safeguard the public in places of public amusement, but I regret to state that owing to the inadequate penalty clause contained in the bye-laws, satisfactory progress has not resulted. However, this question is now before Government, and it is hoped to get the matter on a satisfactory basis before long.

In connection with the Licensed Warehouse and Fire Brigade Act (I of 1893), during the year under review 3,935 inspections have been made (exclusive of theatres and places of public amusement).

Three hundred and sixty-four applications for licenses and complaints have been received and disposed of.



One hundred and twenty-seven prosecutions were instituted under section 14 of Act I of 1893, which resulted in 115 persons being fined, two persons being warned, four cases being withdrawn or filed, and six cases pending, the accused persons being absent.

Two licenses were refused as the sites were not considered suitable and in conformity with the requirements from the Fire Brigade point of view.

**14. General.**—The year under review has been an exceedingly busy one, and owing to the shortage of men a very large amount of additional work has fallen upon the senior members of the Brigade. Great credit is due to these officers as by carrying out such extra work the Fire Brigade has been enabled to spare a large percentage of men for service on the various fronts.

Now that hostilities have ceased it is hoped that the full complement of European officers and firemen will soon be obtained.

On the occasion of the riots which commenced on the 9th September 1918 the Fire Brigade was continuously on duty for a very large number of hours—no less than 17 calls being received and dealt with during the above period.

As will be seen from Appendix IX, giving short reports of the most serious fires, the month of March was notable for a large number of serious jute and other fires. It is very unsatisfactory to note that in many of these cases there was great delay in calling the Fire Brigade, often the first information of a fire being obtained by a fireman on "look-out" duty who saw volumes of smoke rising into the air. In the case of jute fires it is impossible to do efficient work unless the Fire Brigade is called immediately as fires of such material spread with exceptional rapidity. It is satisfactory, however, to note that in every case of jute fires the fires have been confined to the godowns in which they originated.

**15. Jurisdiction.**—The Calcutta Fire Brigade protects the municipalities of Calcutta, Cossipur-Chitpur, Howrah, Maniktala and Garden Reach, and may attend fires outside the boundaries of these municipalities (but not exceeding a radius of six miles from the Central Fire Station), provided that appliances can be spared and on payment of a prescribed fee. Appendix XIX gives the Government order relating to this and the form which should be signed prior to the Fire Brigade leaving the jurisdiction of the above municipalities.

The actual area protected by the Calcutta Fire Brigade is, just over 113 square miles, and the population included in the same is about 1½ millions.

**16. Map.**—For economical purposes the map usually inserted in this report, showing the situation of fire stations, fire alarms, etc., and where fires have occurred is omitted, but it is hoped to resume this next year.

**17. Ambulance Service.**—The motor ambulance service continues to do an immense amount of valuable work, no less than 8,792 calls having been received during the year under review as compared with 3,643 calls in the previous year. The number of miles travelled by motor ambulances during the year is 43,039 as compared with 18,849½ during the previous year.

Since the inauguration of the ambulance service 14,804 calls have been received and the machines have travelled 75,489 miles.

On 5th September 1918 a Hupmobile motor ambulance was purchased and two drivers and four attendants employed. This machine deals exclusively with infectious cases and has already responded to 675 calls and travelled 4,247 miles. These figures are not included in the figures in the preceding paragraph, which refer only to accidents and cases of illness.

On the occasion of the riots on the 9th September 1918 the ambulance service was extremely busy and received no less than 176 calls during the period referred to. A considerable amount of work was also carried out on the occasion of the outbreak of cholera which took place on the occasion of the return of the pilgrims from the Saugor Mela.



Unfortunately the use of the motor is considerably abused. It was originally intended that motor ambulances should be available for all cases of accidents and serious illnesses necessitating urgent removal to hospital, but owing to the fact that the ambulance is now so frequently called for petty cases of illness, not really necessitating the use of ambulance, it is anticipated that an order will have to be issued prohibiting ambulances responding to calls for cases of illness unless they are requisitioned by a medical man, nurse or responsible person.

Owing to so many unnecessary calls it has been found that frequently all the motor ambulances have been engaged on such work and have therefore not been available for urgent cases, such as accidents, etc. If it is required to continue to respond to all calls for cases of illness as at present, the only alternative is to considerably increase the number of appliances and staff, the present machines being totally inadequate to cope with the work. There are now four motor ambulances in commission, one of which is now used for infectious cases only, and the staff comprises six drivers and 12 attendants.

The infectious ambulance has been much in demand and will shortly have to be augmented by another machine and crew, as, owing to the large number of calls for this machine, considerable delay often occurs in moving infectious cases of illness to hospital.

Appendix XXII gives the scale of charges for the use of the motor ambulances, and Appendix XXI gives the number of calls received every day and month throughout the year.

The Ambulance department is financially maintained by Government and the Corporation of Calcutta, the former paying one-third and the latter two-thirds of the cost of up-keep. Appendix XX gives a statement of receipts and expenditure incurred by the motor ambulance service.

*N.B.*—Some of the appendices referred to in the above report are not reprinted in the Gazette.



## APPENDIX I.

## Statement showing receipts and expenditure of the Fire Brigade for 1918-19.

The year opened with a balance of Rs. 96,516-8-1 and the receipts amounted to Rs. 2,59,620-12-6 and the total expenditure to Rs. 2,68,837-10-5, leaving a balance of Rs. 87,299-10-2 at the close of the year.

## RECEIPTS.

The receipts show an increase of Rs. 2,813-12-6 over the estimate. The credits on account of hire of engines, etc., in connection with calls outside the Brigade jurisdiction amounted to Rs. 2,648-12. The fees under the Petroleum Act and Fireworks show an increase of Rs. 825 and Rs. 30, respectively, over the estimate.

## EXPENDITURE.

Under head "Establishment" there was a decrease of Rs. 3,382-7-4 due to the non-debits of the Chief Officer's pay for nearly two months owing to his being on deputation to Mesopotamia and to the leaves and vacancies in the grades of the European firemen and khalsas.

The total expenditure under head "Contingencies" amounted to Rs. 1,54,127-13-6 against a budget grant of Rs. 2,25,987, showing a decrease of Rs. 71,859-2-6. The savings include Rs. 41,738 provided in the budget for the purchase of (i) a combined appliance including fire escape, first-aid cylinders and pumps, (ii) a motor fire-engine with Kees' Rotarbo pump and Rs. 30,000 for the construction of the headquarters station which remained unexpended at the close of the year.

Under head "Other charges" there was an increase of Rs. 272-4-3 due to the increased expenditure on water pressure.

## Abstract of Receipts and Disbursements of the Fire Brigade Fund for the year ending 31st March 1919.

RECEIPTS.	Budget estimate for 1918-19.	Actual receipts for 1918-19.	Increase.	Decrease.	PAYMENTS.	Budget estimate for 1918-19.	Actual charges for 1918-19.	Increase.	Decrease.
	Rs.	Rs. A. P.	R. A. P.	Rs.		Rs.	Rs. A. P.	Rs.	Rs. A. P.
Balance at the beginning of the year.	...	96,516 8 1	...	...	Establishment ...	1,05,695	1,09,302 0 8	...	3,607 2 4
Proportionate cost payable by—					Contingencies ...	2,25,987	1,54,127 13 6	...	71,859 2 6
Corporation of Calcutta.	1,65,150	1,65,150 0 0	...	...	Other charges ...	12,135	12,407 4 3	272 4 3	...
Cossipur-Chitpur Municipality.	40,652	40,652 0 0	...	...					
Howrah Municipality.	35,571	35,571 0 0	...	...					
Garden Reach Municipality.	7,622	7,622 5 0	...	...					
Maniktala Municipality.	5,082	5,082 0 0	...	...					
Total ...	2,54,077	2,54,077 0 0	...	...		2,43,807	2,68,837 10 5	272 4 3	75,030 9 10
Fees under Fireworks	30	60 0 0	30 0 0	...					
Fees under Petroleum Act.	1,500	2,325 0 0	825 0 0	...					
Total ...	1,530	2,385 0 0	855 0 0	...					
Sale-proceeds of unserviceable stores.	500	198 11 0	...	306 5 0	Closing balance on 31st March 1919.	...	87,299 10 2		
Miscellaneous ...	500	2,886 14 6	2,386 14 6	...					
Sale-proceeds of horses	200	75 3 0	...	121 13 0					
Total ...	1,200	3,159 12 6	2,386 14 6	425 3 0					
GRAND TOTAL ...	2,66,807	3,56,137 4 7	3,261 14 6	475 2 0	GRAND TOTAL ...	...	3,56,137 4 7		

## Payment by Municipalities.

	Per cent.	Rs.
Corporation of Calcutta ...	65	1,65,150
Cossipur-Chitpur Municipality ...	16	40,652
Howrah " ...	14	35,571
Garden Reach " ...	3	7,622
Maniktala " ...	2	5,082
Total ...		2,54,077



## APPENDIX II.

Summary showing means by which calls were transmitted to the Fire Brigade.

Month.	Total calls.	Street Fire Alarms.	Private Telephones.	Police Telephones.	Messengers.	Look-out men at Fire Brigade Stations.
April 1918 ...	78	34	34	5	3	2
May " ...	63	33	25	1	1	3
June " ...	34	14	20	...	...	...
July " ...	31	16	13	1	1	...
August " ...	30	15	14	...	1	...
September " ...	58	32	24	...	1	1
October " ...	53	24	22	3	2	2
November " ...	76	31	39	2	1	3
December " ...	107	47	51	3	3	3
January 1919 ...	77	38	31	1	1	6
February " ...	93	30	49	1	3	10
March " ...	125	47	65	2	2	9
Total ...	825	361	387	19	19	39

## APPENDIX III.

Statement showing the number of fires or supposed fires occurring in each district.

Month.	Calcutta.	Cossipur and Chitpur.	Howrah.	Manik-tala.	Garden Reach.	River Docks and Canals.	Out of jurisdiction.	Total.
April 1918	44	4	5	1	2	1	2	59
May "	31	4	3	...	...	2	...	40
June "	16	...	2	...	...	...	1	19
July "	18	...	5	...	...	4	...	27
August "	19	1	4	1	...	1	...	26
September "	31	2	1	3	...	1	...	38
October "	27	5	3	2	1	...	...	38
November "	37	4	6	...	1	1	1	50
December "	38	2	7	4	1	2	...	54
January 1919	40	5	3	2	1	2	...	53
February "	47	5	5	2	...	1	...	60
March "	58	9	5	2	1	1	...	76
Total ...	406	41	49	17	7	16	4	540

## APPENDIX IV.

Statement showing the number of fires or supposed fires on every day and month throughout the year.

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.		
1918.																																		
April	3	...	2	2	2	1	4	2	8	4	5	3	3	1	1	2	1	3	...	1	...	...	1	...	2	2	4	...	1	1	...	59		
May	4	1	2	1	2	3	3	1	...	1	1	...	1	1	1	1	...	1	...	...	...	1	...	1	2	1	1	...	1	4	2	...	40	
June	...	1	...	1	...	4	1	...	...	1	...	...	...	1	1	1	...	1	1	1	...	...	...	3	1	2	2	1	1	1	1	...	19	
July	...	...	1	...	1	1	1	...	...	2	1	1	...	...	2	2	2	...	...	...	...	2	...	...	1	1	1	...	2	1	1	...	27	
August	1	...	...	1	1	1	1	...	1	1	1	1	...	...	...	3	2	2	...	1	1	...	...	1	1	1	3	...	...	...	1	...	26	
September	1	1	...	...	...	...	1	...	7	9	1	1	1	1	1	1	1	1	...	...	...	...	...	1	1	1	3	...	3	...	2	...	38	
October	...	...	...	1	2	...	1	1	3	...	1	1	1	1	2	1	1	3	2	1	3	1	...	1	2	1	3	...	3	...	2	...	53	
November	1	1	2	2	2	...	...	2	2	2	2	1	2	1	1	1	4	...	...	3	2	3	...	3	2	3	4	3	4	...	2	1	...	60
December	1	...	2	...	4	4	1	3	6	1	1	1	1	3	1	...	1	...	1	1	2	1	...	1	...	4	2	4	3	2	2	...	76	
1919.																																		
January	3	3	5	...	4	2	2	...	1	1	1	2	1	1	2	1	3	3	1	3	...	1	3	...	...	...	4	3	1	3	2	...	53	
February	2	5	2	3	5	2	1	3	2	3	2	6	2	3	3	...	2	1	1	1	3	1	2	1	1	3	1	...	...	...	...	...	63	
March	3	...	...	2	2	2	2	2	2	4	2	3	1	1	4	3	3	1	1	4	3	2	3	3	3	3	7	1	4	3	2	...	76	
Total	18	12	16	13	25	25	16	14	32	28	17	19	14	15	22	31	17	14	13	16	13	7	14	14	19	27	28	14	11	21	10	540		



## APPENDIX VI.

Statement showing the damage caused by fire, etc., in the various districts

Month.	Total.	Calcutta.	Cossipur and Chitpur.	Howrah.	Garden Reach.	Manktala.	Docks, Rivers and Canals.	Not included in the foregoing district but within a radius of 6 miles of the Fire Brigade headquarters.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
April 1918 ...	1,32,188	16,353	95,005	780	20,000	...	...	...
May .....	2,02,828	2,793	200,000	20	...	...	15	...
June .....	2,20,302	20,297	...	...	...	...	...	2,00,000
July .....	7,912	1,807	...	5,010	...	...	1,095	...
August .....	9,616	5,756	...	1,810	...	50	2,000	...
September .....	31,175	30,665	...	10	...	500	...	...
October .....	62,694	8,721	53,220	250	...	103	...	...
November .....	5,576	2,531	350	560	100	...	35	2,000
December .....	32,218	21,791	10	135	100	152	10,030	...
January 1919 ...	2,04,894	1,02,699	1,00,515	160	300	120	1,100	...
February .....	14,068	10,868	20	1,170	...	2,010	...	...
March .....	6,26,853	46,067	5,76,056	3,520	50	160	1,000	...
Total ...	15,50,274	2,70,348	10,25,576	13,430	20,550	3,095	15,275	2,02,000

## APPENDIX VIII.

Summary showing the means by which fires were extinguished.

Month.	Occupiers, neighbours, police, &c., individual firemen not necessitating the use of Fire Brigade appliances.	One or more jets from street hydrants.	Chemical machines or first-aid cylinders.	Sand, etc.	One motor pump.	Two motor pumps.	Three motor pumps.	One steam fire engine.	One motor pump and one steam fire engine.	Two motor pumps and one steam fire engine.	Two motor pumps and hydrants.	One motor pump and hydrants.	One motor pump, fire float and ship's appliances.	Three motor pumps and one steam fire engine.	Three motor pumps, one Valiant and hydrants.	Private appliances.	Sprinklers and one or more jets from hydrants.	Two motor pumps, one steam fire engine, fire float and mill appliances.	Three motor pumps, two steam fire engines and fire floats.	Three motor pumps, fire float and hydrants.	Three motor pumps, one valiant, three steam fire engines and fire float.	Three motor pumps, two steam fire engines, two valiants and fire float.	Manual fire engine.	Two motor pumps and mill appliances.	Fire float and ship's appliances.	Electric current cut off and gas turned off.	Rubbish burning.	Special services.	False alarm (willful).	False alarm (accidental or with good intent).	Total.		
1918.																																	
April	24	5	2	3	3	1				1							1							1				2	3	6	7	59	
May	14	6	4		3															1										6	7	40	
June	1	3	4	2	1													1											3	4	1	10	
July	5	2	1	1	2				1								1												1	2	3	27	
August	7	1	2	2	2			1																				2		1	7	1	26
September	3	4	4	2	2	2			1																					21		33	
October	19	1	1	1	7	2										1		1												2	3	33	
November	24	2	3	3	6							1		1									1						1	5	2	50	
December	34	5	1	1	7				1		1	3		1	1	1		1		1							1			2	2	54	
1919:																																	
January	33	3	1	1	3	2	1	1	1				1							1	1					1	1		1	7	4	63	
February	28	3		4	8					1		3																2	1	9	1	60	
March	33	7	5	3	9	3					1									1		1	1		1		1	1	1	6	5	76	
Total	203	40	26	35	32	10	1	2	4	2	2	7	1	2	1	2	2	3	1	3	1	1	1	2	1	4	4	5	12	43	34	540	



## APPENDIX IX.

Short reports of fires of Rs. 1,000 damage and upwards.

Date.	Time of call.	Address.	Trade.	Extinguished by—	REMARKS.
1918.					
3rd April ...	11-18 A.M.	Bengal Hydraulic Jute Press.	Jute Ware-house.	Three Motor Fire Engines.	A brick built double-storied warehouse utilised for storing and assorting jute. Building damaged by fire. Contents comprising pucca bales of jute severely damaged by fire and water.
4th " ...	9-50 A.M.	Calcutta Hydraulic Jute Press.	Ditto ...	Sprinklers ...	A large two-storied brick built warehouse containing baled and loose jute. Building slightly damaged and contents severely damaged by fire and water.
9th " ...	3-39 A.M.	88-89-46, Gora-chand Road.	Dwelling house	Two Motor Fire Engines.	A number of large <i>golpatta</i> huts 28 carts of straw and some personal property severely damaged by fire and water.
10th " ...	2-1 P.M.	Bengalee Bazar	Ditto, etc.	Two Motor Fire Engines and one Steam Fire Engine.	A large number of <i>golpatta</i> huts used as dwelling houses and workshops, three carriages and personal property severely damaged by fire and water.
11th " ...	4-12 P.M.	Bengal Cotton Mill.	Cotton Ware-house.	Two Motor Fire Engines and private appliances.	Quantity of cotton in bags and loose cotton waste in a corrugated iron shed.
12th " ...	10-36 P.M.	Bellaghatta Jute Mill.	Jute Mill ...	Ditto ...	A quantity of loose jute, bobbins and balls of twine in the preparing department. Building not damaged.
16th " ...	3-11 P.M.	Empire Theatre	Theatre ...	One Motor Fire Engine.	About 125,000 feet of bioscope films, quantity of carbons, switches, etc., severely damaged by fire and water. Building slightly damaged.
14th May ...	10-31 A.M.	Chitpur Hydraulic Jute Press.	Jute Press ...	Three Motor Fire Engines.	A brick built two-storied warehouse about 230' x 80' with wooden floors divided into several compartments used for assorting and storing loose baled jute. Contents of upper floor consisting of about 25,000 of loose jute and on the ground floor about 4,400 pucca bales of jute. Building severely damaged. Considerable portion of roof and walls collapsed and contents were severely damaged by fire and water. The first information the Fire Brigade received of the fire was from a man on look-out duty at a district station and considerable difficulty was experienced in obtaining sufficient water.
16th " ...	2-15 A.M.	143, Dharamtolla Street.	Shop and dwelling house.	One Motor Fire Engine.	A two-storied brick built building comprising general shop on ground floor and dwelling rooms above. Fire confined to ground floor. Building slightly damaged and contents consisting of typewriters, gramophone, etc., slightly damaged by fire and water.
16th " ...	7-15 A.M.	82, Serpentine Lane.	Shop ...	Hydrants ...	Contents of ground floor of two-storied brick built building consisting of cinematograph films, gramophones, furniture, etc., severely damaged by fire and water.
5th June ...	2-30 A.M.	37, Strand Road	Warehouse ...	One Motor Fire Engine and street hydrants.	A two-storied wooden and galvanised iron warehouse containing rice, grain, oilseed and oil, etc., Building severely damaged by fire and water. A galvanised iron warehouse about 75' x 50', containing tobacco, slightly damaged by fire and water. Difficulty with water supply owing to obstructions in mains.



## 1044 SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPT, 10, 1919.

Date.	Time of call.	Address.	Trade.	Extinguished by—	REMARKS.
1918. 9th May	10-16 A.M.	Barnagore North Mill.	Jute Mill	Two Motor Fire Engines, 1 Steam Fire Engine, Fire Float and private appliances.	A brick built godown about 250' x 150', containing a large quantity of pucca bales of jute and gunnies. Contents severely damaged by fire and water. Building, roof and walls partly collapsed. Adjoining warehouse divided into wall badly cracked and contents slightly damaged.
5th July	11-10 A.M.	SS. "Umkul"	Ship	Fire Float and ship's hose.	Quantity of coal in bunkers.
17th "	4-48 P.M.	Sibpur Oil Mill	Oil Mill	One Motor Fire Engine and one Steam Fire Engine	A corrugated iron shed about 200' x 25' containing oil distilling plant and about 400 mounds of linseed oil. Building and contents severely damaged by fire and water.
24th "	6-50 P.M.	Central Hydraulic Jute Press.	Jute Press	Sprinklers	A quantity of loose jute and pucca bales damaged by fire and water.
7th August	2-15 A.M.	29, Benares Road, Howrah.	Oil Mill	One Steam Fire Engine.	A quantity of linseed oil and fitting of oil refinery in corrugated iron shed. Buildings and contents severely damaged by fire and water.
19th "	6-55 A.M.	SS. "Querimba"	Ship	Ship's appliances and first aid machines.	A quantity of mustard oil in tins in No. 4 batch damaged by fire and water. Ship not damaged. Cause probably spontaneous combustion of gunny bags and saw dust used for dunnage and had been in contact with the oil.
28th "	12-4 A.M.	159, Lindsay Mansions.	Cinematograph film store.	Hydrants	A quantity of bioscope films on the ground floor of a four-storied brick built building. Building not damaged.
9th September	5 P.M.	171, Harrison Road.	Chemists' shop	Ditto	Contents of chemist's shop considerably damaged by fire and water. Building not damaged. Cause believed to be incendiarism by rioters.
9th "	6-30 P.M.	4-1, Armenian Street	General Warehouse.	One Motor Fire Engine.	A quantity of cloth, blankets, carpets, etc. on the ground floor of a three-storied pucca building considerably damaged by fire and water. Building not damaged. Cause believed to be incendiarism by rioters.
9th "	7-50 P.M.	101, Armenian Street.	Rice Grain Warehouse.	Hydrants	A quantity of grain on the ground floor of a two-storied pucca building. Building slightly damaged and contents considerably damaged by fire and water. Cause believed to be incendiarism by rioters.
10th "	1-2 P.M.	86-5, Machuabazar Street.	Grain Warehouse.	Do	A quantity of grain and dynamo on the ground floor of a brick built building. Cause believed to be incendiarism by rioters.
17th October	8-5 P.M.	18, Convent Road	Chemical Factory.	Two Motor, Fire Engines.	A large hut used for the manufacture of chemicals, containing a large quantity of saltpetre and various chemicals damaged by fire and water. Considerable difficulty was experienced owing to the inadequate supply of water from mains.
23rd "	8-7 P.M.	Shellac Factory, Chitpur.	Shellac Factory.	Two Motor Fire Engines, one Steam Fire Engine and private fire appliances.	A galvanised iron building about 107' x 70' divided by brick building walls rear portion of the upper floor, the whole containing stick lac and a small quantity of shellac severely damaged by fire and water. A brick built two-storied building connected to the above by wooden gangways containing machinery for cleaning shellac, etc., slightly damaged by fire and water. A brick-built office connected to the above slightly damaged by fire and water. The first information received by the Fire Brigade was from a man on look-out duty at a District Fire Station. Nearest available water-supply over 200 yards from fire.



**SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPT. 10, 1919. 1045**

Date.	Time of call.	Address.	Trade.	Extinguished by—	REMARKS.
1918 26th October ...	7-19 P.M.	5, Umakanto Sen Lane, Chitpur.	Chemical Warehouse.	Private fire appliances.	A quantity of cotton and a dynamo in a single-storied pucca building used for repairing antiseptic pressings damaged by fire and water.
29th November	9-36 P.M.	Garia Road ...	Shops ...	One Motor Fire Engine.	A large <i>golputta</i> thatched hut divided into two shops, containing spices, tar and pitch, severely damaged by fire and water.
27th "	2-29 A.M.	18, Ultadanga Road.	Rope Manufactory.	Three Motor Fire Engines and one Steam Fire Engine.	A galvanised iron shed about 508' x 80' containing coir and grass rope. Building and contents severely damaged by fire and water. Considerable difficulty owing to the inadequate water-supply in mains.
3rd December	12-26 P.M.	143-8, Sova Bazar Street.	Jute Warehouse.	Three Motor Fire Engines and Fire Float. Hydrants.	A two-storied brick built building divided into about six compartments used for storing jute. Fire confined to room of origination. Building slightly damaged and contents severely damaged by fire and water.
6th "	6-45 P.M.	18, Belliaghatta Road.	Carpenter and joiner shop.	One Motor fire Engine and one Steam Fire Engine.	A carpenter and joiner shop consisting of a two-storied corrugated iron building about 80' x 80' containing rattan cane, cotton, coir, etc., severely damaged by fire and water; building slightly damaged by fire.
9th "	10-30 A.M.	107, Wellesley Street.	Shops ...	One Motor Fire Engine and Hydrants.	A coach builder's shop constructed of tiled roof, durma mat walls, about 40' x 150' severely damaged by fire. Contents comprising various materials severely damaged by fire and water. Three grain shops constructed of tiled roof and durma mat walls. Building and contents consisting of grain damaged by fire and water. Six dwelling huts and one tea-shop slightly damaged by fire and water. Difficulty was experienced with the water-supply owing to hydrants being out of order.
23rd "	11-19 A.M.	188, Belliaghatta Road.	Dwelling huts	Three Motor Fire Engines one Steam Fire Engine and Hydrants.	A quantity of huts divided into shops and dwellings covering an area of about 230' x 200' severely damaged by fire and water. Very late call for Fire Brigade and considerable difficulty in checking fire owing to inadequate water supply.
25th "	1-44 A.M.	S.S. "Chosen Maru."	Ship	Two Motor Fire Engines one Steam Fire Engine, Fire Float and mains.	About 2,000 bales of jute stored in Nos. 3 and 4 holds severely damaged by fire and water. Ship slightly damaged.
31st "	6-41 P.M.	Shapur Bustee ...	Shops, stores, etc.	One Motor Fire Engine.	About six large <i>golputta</i> huts and quantity of store, chaff cutters severely damaged by fire and water. No water could be obtained from the mains, therefore the Fire Engine had to be worked from a pond at a considerable distance from the fire.
1919. 2nd January ...	4-48 A.M.	Theatre Royal ...	Theatre	Three Motor Fire Engines and hydrants.	The building constructed partially of timber and corrugated iron roof—brick work up to first floor, brick proscenium wall and brick walls for stage completely gutted. Grand Hotel adjoining two sides slightly damaged by fire and water. Three-storied brick built building used as warehouse for ammunition, etc. on ground floor and two upper floor—used as residential quarters slightly damaged by fire and water and verandahs burnt away. The fire was practically confined to the building in which it originated. The first information the Fire Brigade received of the fire was from the look-out man on duty at Fire Brigade headquarters who saw flames coming through the roof. A fire alarm is situated within 50 yards of the fire, but was not operated until some minutes after the alarm had been given by the look-out man.



## 1046 SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPT. 10, 1919.

Date.	Time of call.	Address.	Trade.	Extinguished by—	REMARKS.
1919.					
14th January	3-58 A.M.	224, Cornwallis Street.	Stable and store room.	Two Motor Fire Engines.	Stabling and store room in the ground floor of pucca building severely damaged by fire and water. Two cows, one calf and one horse suffocated.
15th "	4-10 P.M.	Strand Bank Jute Press.	Jute Press ...	Three Motor Fire Engines, two Steam Fire Engines, and one Vaillant Fire Float.	A single-storied brick built warehouse about 400' x 800' divided into two compartments and containing bales of jute and hemp. Building severely damaged, walls including dividing walls, partially collapsed and roof partially collapsed. Contents severely damaged by fire and water. First call of the fire was received from the look-out man at the District Fire Station. Water supply was very inadequate and tank in the compound was emptied by a Motor Fire Engine.
18th "	7-12 P.M.	Cargo boat on river Hooghly.	Boat ...	Fire Float ...	A country boat laden with jute on river Hooghly near Ramkristo-pur Ghat damaged by fire.
4th February	4-38 A.M.	7, Nawab Abdul Latif Lane.	Shops and dwelling rooms.	One Motor Fire Engine.	A large single-storied kutchia erection of timber and durma matting divided into four shops and 16 dwelling rooms severely damaged by fire and water. A late call was received by the Fire Brigade.
5th "	6-34 A.M.	29, Sura 1st Lane, Manik-tala.	Drying shop ...	Ditto ...	A brick-built drying room with timber and stone roof damaged by fire and water. Contents consisting of wooden fittings and blue stones severely damaged by fire and water.
9th "	3-36 P.M.	154, Dharamtolla Street.	Garage ...	Ditto ...	A single-storied brick built shop containing motor accessories, comprising petrol, oil, tyres, vulcanising machine, etc. Building slightly damaged by fire and contents severely damaged by fire and water.



## APPENDIX XII.

Statement showing the number of times each station has been turned out in response to fire calls.

STATION.	1918.										1919.			Total.
	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Headquarters ...	47	37	15	26	24	36	37	48	54	51	52	75	502	
Entally ...	13	8	7	6	8	18	15	16	24	18	25	29	187	
Chitpore ...	8	6	2	2	1	2	6	7	3	7	8	13	65	
Howrah ...	5	3	2	5	3	1	3	6	7	4	5	6	50	
Watgunge ...	2	2	...	...	...	...	1	...	...	...	1	1	7	
Garden Reach ...	2	1	...	...	...	...	1	1	3	2	1	1	12	
Sibpur ...	...	1	1	1	...	1	...	2	4	...	...	2	12	
Palmer's Bridge ...	4	1	...	...	...	1	...	2	7	1	3	3	22	
Fire Float ...	...	1	1	3	...	...	...	...	...	1	...	3	9	
Port Commissioners' Fire Engine.	...	...	...	2	..	...	...	...	2	...	...	...	4	
Total ...	81	60	28	45	36	59	63	82	104	84	95	133	870	

## APPENDIX XIII.

Disposition of the Staff of the Calcutta Fire Brigade during the year 1918-19.

STATION.	Chief Officer.	Chief Engineer.	Inspector of Warehouse.	Station officers.	Engineers.	European driver.	European fireman.	Tindals (1st class).	Tindals (2nd class).	Tindals (3rd class).	Khallasis (1st class).	Khallasis (2nd class).	Khallasis under instruction.	Indian drivers.	Syca.	Bhisties.	Mekbars.	Mooch.	Mechanics.	Telephone operators.	Store-keepers.	Clerks.	Peon.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Headquarters ...	1	...	1	2	6	1	7	3	1	3	10	13	13	...	5	1	1	1	3	3	1	3	1	79
Entally Fire Station ...	...	...	...	1	1	...	...	...	1	3	3	30	5	2	5	1	1	...	...	...	...	...	...	43
Howrah ditto ...	...	...	...	1	1	...	...	...	1	...	3	16	1	1	3	...	1	...	...	...	...	...	...	37
Chitpore ditto ...	...	1	...	...	...	...	...	1	1	...	7	13	1	1	3	...	1	...	...	...	...	...	...	38
Garden Reach Fire Station ...	...	...	...	...	...	...	...	...	1	...	1	9	...	...	...	...	...	...	...	...	...	...	...	11
Watgunge ditto ...	...	...	...	...	...	...	...	...	...	...	1	10	...	...	...	...	...	...	...	...	...	...	...	11
Palmer's Bridge ditto ...	...	...	...	...	...	...	...	...	...	1	...	10	...	...	...	...	...	...	...	...	...	...	...	11
Sibpur ditto ...	...	...	...	...	...	...	...	...	...	...	1	10	...	...	...	...	...	...	...	...	...	...	...	11
Total ...	1	1	1	4	8	1	7	4	5	6	23	100	30	4	16	9	4	1	3	3	1	3	1	321



## APPENDIX XIV.

## Short reports of fires involving loss of life or serious accidents.

Date.	Address.	Called at	Lives lost.	Persons injured.	Nature of premises.	REMARKS.
1918.						
1st April ...	27-1, Simla Street	2-25 A.M. ...	1	...	Dwelling house	A Bengalee woman named Promila Bala Devi saturated her clothing with kerosine oil and ignited it. She was found dead on arrival of the Fire Brigade.
5th " ...	125, Narkeldanga Main Road.	8-9 P.M. ...	...	1	Ditto ...	A Bengalee woman, Kiran Bala, saturated her clothing with kerosine oil and ignited it. On arrival of the Fire Brigade she was found to be severely injured. First-aid was rendered and the woman left under the charge of a doctor.
10th " ...	Chitpur Road ...	4-10 P.M. ...	...	1	Public street ...	Constable 258, Shew Baran Tewary, of the Calcutta Police Reserve Force burnt on the arm and head. His clothing was ignited by somebody throwing lighted matches. First-aid was rendered.
11th " ...	60, Alipur Road	1-11 A.M. ...	1	1	Dwelling house	A man named Motichand Das was badly burnt on the body and a woman named Charu Bala Dasi was severely burnt. First-aid was rendered and injured persons conveyed to hospital. The woman died same day.
2nd May ...	85-4, Durponarain Tagore Street.	1-44 P.M. ...	1	...	Ditto ...	A Bengalee woman named Uma-sashi Dasi, aged about 22 years, was cooking food. Her clothing became ignited and she was found dead on arrival of the Fire Brigade.
6th June ...	14, Lukhi Dutt Lane.	12-10 A.M.	1	...	Ditto ...	A Bengalee woman, Kamala Dasi, aged 22 years, saturated her clothing with kerosine oil and ignited it. She was found dead on arrival of the Fire Brigade.
13th " ...	9-1, Waterloo Street.	12-40 P.M.	...	1	Workshop ...	An Indian named Basant Jeevar was very severely burnt. First-aid was rendered and the injured man conveyed to hospital.
14th " ...	10, Blackburn Lane.	12-24 P.M.	...	1	Shop ...	Owing to the collapse of a three storied brick built building a Chinaman was buried under the debris. He was extricated after about 2 hours' work and was not seriously injured.
18th " ...	101, Clive Street	2-43 A.M.	...	1	Warehouse ...	Owing to the collapse of a brick built warehouse an Indian was buried. He was extricated after about an hour's work and was not seriously injured.
17th July ...	Sibpur Oil Mill	4-43 P.M.	...	1	Oil Mill ...	The European Manager of the Oil Mill was burnt on the hands and arms in endeavouring to extinguish the fire. First-aid was rendered by the Fire Brigade.
28th August	26, Mussalmanpara Lane.	9-15 A.M.	1	...	Dwelling house	An Indian woman named Durga Rance, aged about 20 years, saturated her clothing with kerosine oil and ignited it. She was found dead on arrival of the Fire Brigade.
6th December	17-1, Canal West Road.	6-16 P.M.	1	...	Ditto ...	A Mahomedan boy named Shaik Mithu, aged about 7 years, was very badly burnt. First aid was rendered by the Fire Brigade and the injured boy conveyed to hospital, where he died.



**SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPT. 10, 1919. 1049**

Date.	Address.	Called at—	Lives lost.	Persons injured.	Nature of premises.	REMARKS.
<b>1918.</b>						
10th December	55, Corporation Street.	12-44 A.M.	...	1	Dwelling house	A Bengalee named Upendra Nath Ghose burnt on the arms and head and legs. First aid was rendered by the Fire Brigade and the injured person conveyed to hospital.
23rd "	188, Bellinghata Road.	11-19 A.M.	1	...	Ditto	An Indian woman named Barie Rance was severely burnt about the body. Injured person was conveyed to hospital where she subsequently died.
<b>1919.</b>						
2nd January	Theatre Royal ...	4-48 A.M.	...	4	Theatre	At the fire which occurred at the Theatre Royal, the Grand Hotel adjoining was slightly damaged and four persons were burnt whilst escaping along a verandah leading from the Hotel Annexe.
28th "	87, Gurpar Road	1-57 P.M.	1	...	Dwelling house	A Bengalee woman named Santa Devi saturated her clothing with kerosine oil and ignited it. She was found dead on arrival of the Fire Brigade.
4th February	7, Nawab Abdul Latif Lane.	4-38 A.M.	1	...	Ditto	A Mohamedan woman aged about 40 years, was severely burnt and found dead on arrival of the Fire Brigade.
27th "	1, Duff Street ...	5-21 P.M.	1	...	Ditto	A Bengalee named N. N. Saha, aged about 20 years, set fire to his clothing. He was found dead on arrival of the Fire Brigade.
9th March ...	Canal Press, Chitpur.	1-19 P.M.	...	1	Jute Press	Whilst working on the roof of a jute godown fire Engineer Tucker of the Calcutta Fire Brigade fell through an opening. He fell about 22 feet, and received serious injuries to his right arm.
28th "	Convent Road	9-52 P.M.	...	1	Motor car	The driver of a motor car was burnt on the hands and legs in attempting to put out a fire. First-aid was rendered by the Fire Brigade.



## APPENDIX XV.

## Statement of causes of fires and buildings, etc., involved.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
		Cooking stoves and other fires left unattended and unprotected.	Smoking.	Oil lamp, etc., exploding and overheating.	Electric wires fusing.	Naked lights in contact.	Spontaneous ignition.	Pire-works.	Sparks from furnaces and chimneys, locomotives.	Matches thrown down.	Tar, glue, etc., boiling over.	Children playing with matches.	Petrol vapour in contact with lights.	Gas escaping.	Acid, phosphorus, etc., spilled.	Machinery over-heating.	Supposed incendiarism.	Incendiarism by rioters.	Burning rubbish.	Bulb by burning.	Incendiarism.	Short circuit.	Explosion of chemicals.	Grinding gunpowder.	Lighting.	Lime overheating.	Hot sales thrown.	Special services.	(Causes not definitely ascertained).	False alarms (willful).	False alarms (with good intent or accidental).	Total.	
Dwellings	...	81	15	7	6	13	...	6	25	2	2	10	...	...	...	...	2	...	...	...	1	6	...	...	...	...	1	...	...	...	...	175	
Shops, offices, garages, etc.	...	4	7	7	2	9	...	...	5	...	4	...	...	1	3	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	71	
General warehouses and manufactories	...	...	9	2	2	...	...	...	3	...	1	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32	
Jute mills, warehouses and presses	...	...	1	...	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	
Straw, coal, etc., stacks of	...	...	10	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	
Ships, etc.	...	...	1	1	...	...	...	...	3	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	
Workshops	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	
Out-buildings	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	
Motor-cars, cycles, etc.	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Jute, straw, etc., in transit	...	...	3	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
Theatres, churches, schools, etc.	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Rubbish burning	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
Miscellaneous	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
Special service	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Sugar, etc., godown	...	...	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
Gas or electric mains	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
False alarms (willful)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	83
False alarms (accidental or with good intent).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
Total	...	41	54	25	16	38	12	7	85	4	13	11	6	4	4	4	3	7	2	6	1	10	1	3	2	1	1	6	78	83	36	540	



## APPENDIX XXII.

### Corporation of Calcutta.

#### Motor Ambulance Service.

##### Rules.

1. The use of the motor ambulances is allowed free of charge in Calcutta and its immediate surroundings in the following cases :—

- (i) In all accident cases, and in all labour cases where the parties are poor.
- (ii) In the case of patients suffering from non-infectious diseases who are intended to be treated in hospitals in general indoor wards without payment.
- (iii) In the case of patients suffering from non-infectious diseases who may belong to His Majesty's naval or land forces.
- (iv) In the case of members of the Indian Defence Force whose injuries or sickness may have been caused in the discharge of their military duties.

2. Fees will be charged for the use of the motor ambulances in the following cases at the rates noted against each—

A. In the case of Calcutta residents :—

(i) Where a paying patient is conveyed from his home to a hospital or *vice versa*—

	Rs.
(a) For patients treated in the three Nursing Homes, <i>viz.</i> , the Bengal Nursing Home in Bow Bazar and the two Nursing Homes in Middleton Row and Wood Street, or in the Woodburn Block of the Presidency General Hospital, Turret rooms of the Eden Hospital, larger five-rupee cabins or purdah cottages of the Dufferin Hospital, or in any other hospital or place of treatment on payment of a daily charge of Rs. 5 and above ...	5
(b) For patients treated in other paying wards of hospitals or other places of treatment on payment of a daily fee of less than Rs. 5 ...	2
(ii) In other than hospital cases, <i>i.e.</i> , where the ambulance is engaged to convey a patient to a railway station, steamer or elsewhere (but not to a hospital) and <i>vice versa</i> , the fee will ordinarily be ...	5
(but the Chief Officer, Fire Brigade, has the discretion to reduce it, if he thinks proper).	

B. In the case of patients (suffering from non-infectious diseases) outside Calcutta :—  
Same rates as in A above, *plus* 8 annas per mile for the distance covered by the ambulance outside the municipal limits both ways.

3. In all cases in which fees are payable, the amount due must be prepaid. The drivers are supplied with a book of vouchers and will give a printed receipt in return for the proper fee.

4. In all accident cases in Calcutta or its surroundings, motor ambulances will turn out on the requisition of any person if there are reasonable grounds to consider the call a *bona fide* one.

Requisitions (which may be verbal or written) for ambulance for conveying patients should be made by a doctor or nurse or other responsible person.

5. The Chief Officer, Fire Brigade, has the option of refusing to send the ambulances (a) outside the municipal limits, (b) in cases within the municipal limits in which he has reason to doubt the *bona fides* of the parties (if other than doctors or nurses) requisitioning.



No. S.2321, dated Calcutta, the 14th August 1919.

From—The Hon'ble MR. J. DONALD, I.C.S., C.I.E., Chairman of the Corporation of Calcutta,

To—The Secretary to the Government of Bengal, Municipal Dept.

I HAVE the honour to submit the following report, under section 41 of Act I (B.C.) of 1893, for the year 1918-19.

During the year under report, the fees under sections 10 and 24 were levied at 10 per cent. on the annual valuation of warehouses, as in the preceding year.

A statement showing the receipts and disbursements of the Licensed Warehouse Fund and a list of jute and other licensed warehouses for the year 1918-19 in a consecutive form are appended.

### Licensed Warehouse (Fire Brigade) Fund.

#### Statement of Receipts and Disbursements during the year 1918-19.

##### Receipts.

Particulars.	DEMAND.			COLLECTIONS.			REMISSIONS.			BALANCE.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.
		Rs. A.	Rs. A.		Rs. Rs.		Rs. A.	Rs. A.				
(a) Licence fees levied under sections 10 and 24.	Nil	94,910 8	94,910 8	Nil	93,704	93,704	Nil	1,206 8	1,206 8	Nil	Nil	Nil
(b) Supplementary demand for 1917-18 created after 31st March 1918.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(c) Mutation fee levied under section 11.	...	...	...	...	...	100	...	...	...	...	...	...
(d) Rates levied under section 25 (1) (a).	...	...	...	...	...	...	...	...	...	...	...	...
(e) Rates levied under section 25 (1) (b).	...	...	...	...	...	...	...	...	...	...	...	...
(f) Rates levied under section 25 (1) (c).	...	...	...	...	...	...	...	...	...	...	...	...
(g) Fines and Penalties under the Act.	...	...	...	...	...	1,102	...	...	...	...	...	...
(h) Contribution from Government towards the cost of establishment.	...	...	...	...	...	3,000	...	...	...	...	...	...
(i) Contribution from the General Fund.	...	...	...	...	...	82,876	...	...	...	...	...	...
Total	...	...	...	...	...	1,80,481	...	...	...	...	...	...

	Rs. A.
Total Rupees	1,80,481 0
Less—Refund	1,167 0
Net Receipts	1,79,314 0
Add—Opening balance	45,271 8
Total	2,24,585 8

##### Disbursements.

	Rs. A.
(1) Establishment	3,000 0
(2) Contribution to Fire Brigade	1,65,150 0
(3) Any other special item as specified	.....
Total	1,68,150 0
Closing balance on 31st March 1919	56,435 8



## List of Jute Warehouses, 1918-19.

Name of Street.	Street or holding number with the number of warehouses shown in brackets, when more than one.
<b>Ward No. 1.</b>	
Baghbazar Street	... 1.
Canal West Road	... 39-2, 3, 4, 12 & 41-A.
Dhanialagan Road	... 7-2.
Chitpore Road, Upper	... 178, 202, 204, 206.
Chitpore Bridge Approach	... 1.
Ram Krishna Lane	... 9, 11, 13, 15, 17, 19, 21.
Durga Ch. Mukherji Street	... 1 & 1-1, 5, 6-6/6, 7, 14, 32, 33, 41, 42, 43, 45.
Gopal Ch. Neogy Lane	... 1, 4, 20.
Galiff Street	... 10-1, 22, 25-1, 26.
Shambazar Bridge Road	... 5.
<b>Ward No. 2.</b>	
Ahiritolla Street	... 1, 3, 4, 4/1-3, 5, 6, 8, 10-3, 169, 170, 172.
Bonomali Sircar Street	... 10.
Ramdhona Khan Lane	... 5.
Biprodas Dey Lane	... 1.
Upper Chitpore Road	... 243, 244.
Duttapara Lane	... 11, 12, 14 & 15.
Darmahatta Street	... 75, 76-2, 77, 77-1, 77-5, 80, 80-1, 81, 82, 85-1, 86, 87, 88, 92, 93, 99, 100, 108, 121, 124, 125, 133, 134, 135, 136 to 136-8, 138, 139, 140, 140/1-5, 140/8-12, 140-14, 141, 142, 143/2-5.
Darmahatta 1st Lane	... 1, 2, 4, 5, 6.
Galiff Street	... 1-1.
Hara Ch. Mullick Lane	... 1, 16, 23, 24.
Mahammed Romzan Lane	... 14.
Madanmohan Dutt Lane	... 3.
Hara Ch. Mullick Street	... 2, 4, 5, 6, 7, 7-1, 9, 10, 11, 12, 13, 13-4, 13-6, 16, 19, 20, 22, 23, 24-1, 25, 27, 28.
Manick Bose Ghat Street	... 1, 1-1, 3, 17-1, 20-1, 33, 36, 36/1-7, 36-9, 40, 43, 44, 44-1, 46, 47, 48, 49, 50.
Nimtolla Ghat Street	... 43, 62, 64, 68.
Nimtalla Ghat Lane	... 15.
Nayan Sur Lane	... 1-A, 1-1, 1-2, 7, 8, 9.
Natherbagan Street	... 11, 11-1, 23, 25-1.
Sovabazar Street	... 1, 2, 5, 6, 7-A, 8, 9, 10, 11, 12, 15, 16, 19, 20, 22, 29, 32, 36, 38, 41, 43, 46A, 48, 50-A, 54, 64.
Strand Road	... 66, 66-7, 67-H-5 & 6.
<b>Ward No. 3.</b>	
Budridas Temple Street	... 1, 2, 4, 19, 24.
Canal West Road	... 3, 24-1, 24-2, 25-3, 26-H-1, 29-1, 35, 35-5.
Gouribere Lane	... 51, 55, 58.
Halsibagan Road	... 4.
<b>Ward No. 5.</b>	
Strand Road	... 67-27(2).
Juggarnath Ghat Inland Warehouse.	
<b>Ward No. 9.</b>	
Beliaghata Road	... 135.
Canal West Road	... 4.
Circular Road, Upper	... 308.
<b>Ward No. 19.</b>	
Convent Lane	... 12.
<b>Ward No. 25.</b>	
Garden Reach Road	... 9.



## List of Warehouses other than Jute, 1918-19.

Name of Street.	Street or holding number with the number of warehouses shown in brackets when more than one.
<b>Ward No. 1.</b>	
Bosepara Lane	... 49-1.
Baghbazar Street	... 74, 76-1.
Circular Road, Upper	... 228-2-H, 192.
Canal West Road	... 37-1, 39(2), 42, 43(9).
Chitpore Road, Upper	... 161-H-18, 176-H-9, 199-1, 199-1-1(3), 199-1-2(3), 199-6, 199-1-7.
Raja Naba Kissen Street	... 79(2).
Cornwallis Street	... 81(2), 82-2, 124(2), 138(3), 137.
Galiff Street	... 18(2), 20(2), 21-H-1(2), 22-H-3, 22(2).
Kaliprosad Chakraborty Street	... 12-2.
Rusick Mitra Lane	... 11.
Ultadingi Road	... 19, 21.
<b>Ward No. 2.</b>	
Ahiritolla Street	... 104, 122, 153.
Ahiritolla 1st Lane	... 7.
Bonomali Sircar Street	... 1-H-15.
Baneatolla Street	... 16, 19.
Chitpore Road, Upper	... 220, 232, 234, 262, 316-317.
Duttapara Lane	... 5.
Darmabatta Street	... 71(6), 72(9), 73, 180(4).
Kasi Mitter Ghat Street	... 32, 33, 41.
Md Romjan Lane	... 5, 6, 11(14), 17.
Madan Mohan Dutt Lane	... 5, 6.
Natherbagan Street	... 13-2.
Nimtolla Ghat Street	... 71-1, 80, 84, 85(12), 86-1(2).
Baloram Mazumdar Street	... 35.
Sovabazar Street	... 98, 100, 101(2), 122.
Strand Road	... 67-10(2), 67-10-11.
<b>Ward No. 3.</b>	
Beadon Street	... 81.
Brindaban Bose Lane	... 30.
Chitpore Road, Upper	... 139(2), 149.
Cornwallis Street	... 76-1, 76-3, 148.
Circular Road, Upper	... 254.
Grey Street	... 26-1(2).
Hazi Zekharla Lane	... 1.
Musjidbaree Street	... 167-H-9.
Munshipara Lane	... 16.
Pearymohan Sur Lane	... 9-3.
Simla Road	... 16.
Ultadingi Road	... 86.
<b>Ward No. 4.</b>	
Canal West Road	... 15(3), 16(3), 17(7), 18(12), 19(9).
Bipradas Street	... 1.
Bahir Mirzapore Road	... 1.
Circular Road, Upper	... 93-1-H, 120, 121, 258(2), 289(2), 295.
Gas Street	... 3-H-1, 4-1, 5-1, 5-3, 6-H-2.
Manicktolla Road	... 13.
Machhabazar Street	... 68.
Rajendralala Street	... 2.
<b>Ward No. 5.</b>	
Burtolla Street	... 35, 82(2), 83.
Banastolla Street	... 2, 66(4).
Bysack Street	... 2.
Darponarain Tagore Street	... 14-1, 17, 28.
Jorabagan Street	... 15-2, 19, 25, 28.
Brojogobinda Sha Lane	... 1.



Name of Street.	Street or holding number with the number of warehouses shown in brackets when more than one.
Cotton Street	... 114-1, 115(4), 117, 117-1, 119, 123, 125(2), 125-1, 130, 131(4), 132(2), 133(4), 134, 135, 137, 138.
Kalakur Lane	... 2, 8.
Narayan Prosad Babu Lane	... 11.
Chitpore Road, Upper	... 357, 391, 402(10).
Darmahatta Street	... 20(4), 21(11), 34, 36-1(2), 37, 38(2), 41(3), 52, 61(2), 62, 63, 64(2), 65(12), 65-1(27), 66, 67, 68(2), 69, 182, 183, 184(2), 185, 186, 187(10), 192, 202-10, 202-11.
Jagamohan Mullick Lane	... 8-1.
Dayahatta Street	... 3, 8.
Mandal Street	... 18-4, 43.
Moidaputty Lane	... 2, 3, 3-1(3), 3-2(2), 4(3), 6.
Moirahatta Street	... 31, 34.
Prasannakumar Tagore Street	... 9(2).
Raghunandan Lane	... 9-1(3).
Ramlal Sett Road	... 1, 2, 3(2).
Shama By Lane	... 2, 6, 8.
Sovaram Bysak Street	... 1(2), 8, 10, 14-3-1.
Nimtolla Ghat Street	... 5-1(4), 13, 14, 14-2, 40, 42.
Strand Road	... 57, 62(4), 67(20).
<b>Ward No. 6.</b>	
Beadon Street	... 16-2A.
Baranashi Ghose Street	... 14.
Chitpore Road, Upper	... 9, 56.
Machhuabazar Street	... 135-1(2).
Mitter Lane	... 6-1, 19.
Raja Rajendra Mullick Street	... 18.
<b>Ward No. 7.</b>	
Armenian Street	... 20.
Amratala Street	... 29.
Bonfield's Lane	... 16.
Cross Street	... 94(6).
Canning Street	... 48, 56, 58, 60(3), 63, 65(2), 66(2), 69-1, 70, 95(2), 107.
Clive Street	... 29, 40(2), 41B, 42(12), 46-H, 62(3), 70(5), 71-E, 72-2(3), 73(2), 78(3), 82.
Cotton Street	... 62(4), 67, 68(2), 70, 71(3), 72, 73(3), 74-1, 75(2), 76, 77(3).
David Joseph Lane	... 4, 6(3), 16(3), 16-1, 18.
Ezra Street	... 9, 54, 64.
Jackson Lane	... 4, 18, 20.
Old Court House Lane	... 4(2), 5(2), 8.
Parsee Church Street	... 9.
Lyons Range	... 2.
Pollock Street	... 1, 1-1, 14, 24(3), 28.
Ramsebak Mullick Lane	... 27.
Manook Lane	... 3.
Radhabazar Street	... 19.
Strand Road	... 42(4), 67.
Synagogue Street	... 15.
Sukeas Lane	... 3, 4, 5(4), 11(2), 11-1, 12(2), 15, 16, 17, 18, 19, 20.
<b>Ward No. 8.</b>	
Chattawalla Gullee	... 26, 35, 37.
Chitpore Road, Lower	... 11.
Bowbazar Street	... 225, 236, 242, 245, 263, 264, 285-4-1, 296, 309.
Kalutolla Lane	... 5.
Phear Lane	... 33, 74, 75.
Blackburn Lane	... 33.



Name of Street.	Street or holding number with the number of warehouses shown in brackets, when more than one.
Sovaram Bysack Lane	... 27-2(2), 1.
Giri Babu Lane	... 30.
Kalutolla Street	... 11-3, 34-1, 37, 38, 65-1, 80, 81(4), 84(2).
Machubazar Street	... 1-2, 12.
Sagore Dutt Lane	... 7A(20).
Madanmohan Sen Lane	... 25.
Ismail Madan Lane	... 13.
Teritta Bazar Street	... 19.

## Ward No. 9.

Baithakhana Road	... 1, 2, 3, 4, 5, 8, 9, 10, 41, 168.
Beliaghata Road	... 133(2), 137.
Amherst Street	... 110-1, 128(2), 133(2), 136, 137, 151.
Bowbazar Street	... 167(13), 171.
Canal West Road	... 1, 2.
Harrison Road	... 17, 19, 31, 40.
Joynarain Ch. Lane	... 1-2-A, 1-3-A.
Srigopal Mullick Lane	... 4, 49.
Musalmanpara Lane	... 18.
Circular Road, Upper	... 4, 7, 8, 302-1.
College Street	... 18.
Brojonath Dutt Lane	... 4.
Chutarpara Lane	... 10.
Chunapukur Lane	... 32.
Machubazar Street	... 60, 60-1.
Mirzapore Tank Lane	... 2-1.
Nilmoney Ganguly Lane	... 5.
Nitai Babu Lane	... 1.
Noor Mahammed Sircar Lane	... 5-A.
Mirzapur Street	... 27, 27-1, 27-5(2), 28-1(2), 29-1-1, 29-2, 29-H-2, 31-1, 63-1(3), 63-2, 64-1.
Patwarbagan Lane	... 16.
Patuatolla Lane	... 20.
Prem Chand Boral Street	... 49.
Ramkanta Mistry Lane	... 1 & 2.
Scott Lane	... 34-1(2), 37, 38(2).
Siddeswar Chandra Lane	... 13-2, 13-3, 13-4.

## Ward No. 10.

Bentinck Street	... 60, 61, 73, 77, 77-1, 77-3, 81-7, 80-5, 76, 51(2).
Bowbazar Street	... 67-1.
Bow Street	... 8-1.
New Bowbazar Lane	... 3-1, 3.
Grant's Lane	... 3, 13.
Jebb Lane	... 3.
Khairoo Lane	... 22, 2, 4B.
Metcalf Street	... 4, 60.
Prinsep Street	... 5, 14, 16.
Howe Lane	... 4, 5.
Weston Street	... 6, 8, 12-1, 56, 11, 11.
Dhurrumtolla Street	... 167(4).

## Ward No. 11.

Bowbazar Street	... 121, 125, 127, 128, 132, 137, 144.
St. James' Lane	... 20, 63.
Circular Road, Lower	... 124, 132.
Nebutolla Lane	... 11, 5-2.
Huzurimull Lane	... 5.
Serpentine Lane	... 67.



Name of Street.

Street or holding number, with the number of  
warehouses shown in brackets,  
when more than one.

## Ward No. 12.

Bentinck Street	... 7(2), 13(2), 27-2, 39.
Church Lane	... 6.
Cooper Lane	... 4.
Dalhousie Square	... 4.
Fancy Lane	... 4.
Lalbazar Street	... 1, 3, 6, 8-1, 8B, 9.
Mission Row	... 1, 7, 8(2), 12.
Mangoe Lane	... 2-1, 25, 5.
Wellesley Place	... 7-1.

## Ward No. 13.

Corporation Place	... 1, 10, 12, 13, 15.
Corporation Street	... 122-1, 129, 131, 141, 136, 133-1.
Collin Street	... 24.
Dhurrumtolla Street	... 3, 2, 9.
Free School Street	... 19-3, 59(5), 72-2, 57½.
Grant Street	... 1.
Lindsay Street	... 12, 12-1, 7.
Chowringhee Place	... 4.
Mott Lane	... 44.
Motilal Seal Street	... 2.
Wellesley Street	... 2-H-1, 26-H-2, 25.
Ripon Street	... 199.

## Ward No. 14.

Circular Road, Lower	... 76, 88, 93.
Corporation Street	... 49-64, 106.
Dhurrumtolla Street	... 88, 88-1.
Dr. Durga Ch. Banerji Street	... 22, 49(2), 61.
Munshi Alimiddin Street	... 21, 37.
Ripon Street	... 99.
Wellesley Street	... 80, 83.
Neogypuker By Lane	... 10-1.
Nawab Abdul Latif Lane	... 8, 12.

## Ward No. 15.

Circular Road, Lower	... 37.
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## Ward No. 19.

Ananda Gopal Palit Road	... 17, 18, 41(2), 44, 63-2.
Dehi Entally Road	... 16, 17-3.
Beliaghata Road	... 4(26), 10-1, 18.
Canal South Road	... 1(4), 2-H-1, 3-H-1, 4(2), 5(3), 6(3), 7, 8, 9, 10, 10-H-1, 10-H-11, 12-1, 14, 15, 16(2), 17(2), 18, 19, 20(2), 21, 27, 31, 33.
Circular Road, Lower	... 154(2), 154-1, 156(2), 156-1.
Kulia Tangra, 2nd Lane	... 2.
Sambhu Babu Lane	... 13-1.
Harimohan Roy Lane	... 1.
Police Hospital Road	... 35.
South Road, Entally	... 5, 9-2, 9-3, 18, 67-1, 68-1, 90.
Middle Road, Entally	... 40, 30, 37(3), 43-2.
South Sealdah Road	... 1-1, 2-1, 10, 12.

## Ward No. 20.

Jannagore Road	... 2, 3, 41.
Karraya Bazar Road	... 14.
Jhowtolla Road	... 2.
Kimber Street	... 6.



1058 SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPT. 10, 1919.

Name of Street.	Street or holding number, with the number of warehouses shown in brackets, when more than one.
<b>Ward No. 21.</b>	
Karraya Road	... 22.
Russa Road, South	... 35, 73, 133, 139-2.
Dhakuria Road	... 27, 105.
Guriahat Road	... 48-1.
Bundel Road	... 8.
Tollygunge Circular Road	... 12, 14, 15.
Monoharpuker 1st Lane	... 44.
Monoharpuker Road	... 11.
Tollygunge Road	... 21-G, 69(3), 72, 74, 75, 75-1, 76(3), 112-1, 114-1, 114-2, 115-2.
Lower Circular Road	... 223.
<b>Ward No. 22.</b>	
Beltolla Road	... 19.
Chaulputty Road	... 4-H-1, 13, 30, 30-1, 50-1, 53, 56, 61.
Gobinda Bose Lane	... 1-1.
Halderpara Road	... 1, 32.
Hazra Road	... 1-1, 127.
Haris Ch. Mukerji Road	... 56, 62, 158.
Kali Ghat Road	... 19, 20(2), 23, 31-1, 31-3, 48-4, 136-4, 140.
Harish Ch. Chatterji Street	... 18, 27-2, 28-1, 29-1, 30, 29-H-1, 30-1, 33(2), 34-1-2, 38, 40-1, 44, 44-1, 44-3, 45, 46.
Lansdowne Road	... 55-3.
Madan Pal Lane	... 45, 6, 36-H-1, 36-H-2, 16, 26, 28.
Puddapuker Lane	... 2.
Kansaripara Road	... 66.
Katuakhoti Road	... 8-H-1, 9-H-3.
Nepal Bhattacharji Lane	... 4, 10-1.
Kalidas Patitandi Lane	... 1-3, 5-1.
Mohim Halder Street	... 7-1, 32-1-1
Russa Road South	... 141, 143.
Chakraberia Road, South	... 44-1 and 44-4
Sankaripara Road	... 12.
<b>Ward No. 23.</b>	
Bridge Road	... 3-73, 11, 8, 17, 19, 20, 24, 25.
Chetla Road	... 1, 17-1.
Gopalnagore Road	... 20-1.
Chetla Hat Road	... 5, 20-14(2), 19.
Judge's Court Road.	... 40.
Meyerpore Road	... 3, 12-1, 73-4, 73-6-18.
Joynuddi Mistri Lane	... 27.
Alipore Park Road	... 2.
Alipore Road	... 19, 35.
<b>Ward No. 24.</b>	
Bhukoilash Road	... 1(2), 1(1).
Kailasarak Road	... 11-1-1.
Kantapuker Road	... "W" Shed.
Circular Garden Reach Road	... 48-B.
<b>Ward No. 25.</b>	
Berapuker Road	... 5-3, 11, 12, 13.
Circular Garden Reach Road	... 18(2), 116-H, 120-1, 8-1-1
Kuturi Road	... 35-2.
Garden Reach Road	... 10, 86, 96(2), 98(5).
Ram Kamal Mukherji Street	... 27-1, 28-1.
Metapuker Lane	... 27.
Monsatolla Lane	... 27.
Neluapara Road	... 4.
Watgunj Street	... 12.



Name of Street.	Street or holding number, with the number of warehouses shown in brackets, when more than one.
Munshigunge Road	... 3(2), 3-2, 6, 7, 6-8, 9-17, 13(2), 12, 28, 29, 32, 33, 35(2), 36, 37, 38(2).
Puddapuker Street	... 1, 1-4, 2-1, 32, 41(3) 43.
Puddapuker Square	... 11.
Puddapuker West Lane	... 9, 10, 36-1.
Gangadhar Banerji Lane	... 8-1(7), 8-2(2).
Tarafdar Tank 2nd Lane	... 8(2).
Diamond Harbour Road	... 89(4), 89-5(3), 90, 90-1(2), 89, 90-1-3.

No. 133M., dated Calcutta, the 28th July 1919.

From—The Hon'ble MR. J. LANG, I.C.S., Commr. of the Presy. Divn.

To—The Secy. to the Govt. of Bengal, Municipal Department.

I HAVE the honour to submit, herewith, copies of the report on the working of the Licensed Jute Warehouse and Fire-Brigade Act, I (B.C.) of 1893, for the year ending the 31st March 1919, in Cossipore-Chitpur, Maniktala and Garden Reach Municipalities.

No. 899, dated Tala, the 13th June 1919.

From—BABU HEM CHANDRA DE, M.A., Chairman, Cossipore-Chitpur Municipality,

To—The Magistrate of the 24-Parganas, Alipore.

WITH reference to your letter No. M—327-1-19, dated the 6th May 1919, I have the honour to submit the following report on the working of the Jute Warehouse and Fire Brigade Act within the municipality during the year 1918-19, together with the statements of receipts and disbursements and of the licensed warehouses, in the forms prescribed by Government.

2. The rate of the licence-fee levied on the warehouses in the year of report was 7½ per cent. on the annual valuations of warehouses, as was done in the previous year.

3. The total receipts from the fees and the rates specified in statement I amounted to Rs. 27,422-10. The demand of the Commissioner of Police for the year on account of contribution towards the cost of maintenance of the Metropolitan Fire Brigade payable by this municipality being Rs. 40,652, the Municipal Commissioners had to pay Rs. 13,229-6 from their general fund.

4. No rates were levied under section 25 (i) (a), (b) and (c) of the Licensed Warehouse and Fire Brigade Act during the year of report.

5. A sum of Rs. 58 was received from the Police Magistrate, Sealdah, during the year of report, as fine imposed on persons using warehouses without licences.

6. The warehouses licensed during the year of report, are shown in the statement put up herewith.

### STATEMENT I.

#### Statement of Receipts and Disbursements.

Opening Balance on 1st April 1918—Nil. The Debit Balance of Rs. 13,229-6 was met from the general fund.

#### Receipts.

	DEMAND.			COLLECTIONS.			REMISSION.			BALANCE.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.
	Rs. A. P.	Rs. A.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.
Licence fee levied under sections 10 and 26.	23 0 9	28,498 12	28,510 12 9	22 0 9	27,391 15 9	27,314 0 6	...	1,196 12 8	1,196 12 8	...	...	...
Mutation fee	...	50 0	50 0 0	...	50 0 0	50 0 0	...	...	...	...	...	...
Rates under section—												
25 (1) (a)	0 8 6	...	0 9 6	0 9 6	...	0 9 6	...	...	...	...	...	...
25 (1) (b)	...	...	...	...	...	...	...	...	...	...	...	...
25 (1) (c)	...	...	...	...	...	...	...	...	...	...	...	...
Fines and penalties under the Act.	...	58 0	58 0 0	...	58 0 0	58 0 0	...	...	...	...	...	...
Total	23 10 3	28,596 12	28,619 6 3	22 10 3	27,399 15 9	27,422 10 0	...	1,196 12 8	1,196 12 8	...	...	...



*Disbursements.*

	Rs.
1. Establishment	...
2. Contribution to Fire Brigade, Fund...	40,652
3. Any other special item	...
4. Total	40,652
5. Closing Balance	...
6. Grand Total	...

The total receipts being Rs. 27,422-10, the deficit of Rs. 13,229-6 was met from the general fund.

**Statement of Warehouses licensed during 1918-19.**

Name of Road.	Number of Holdings.
Barrackpore Trunk Road	... 3-1, 3-3, 3-3-1, 5, 32-3, 26-29-1, 57-9, 58-70, 60-1, 74A, 83, 84, 85-1.
Gun Foundry Road	... 1.
Cossipore Road	... 1, 26, 30, 32, 115
Lock Gate Road	... 45, 51.
Sugar Works Lane	... 1, 2, 3.
Ram Gopal Ghosh Road	... 2A,
Kali Prasanna Sinha Road	... 2, 3, 4, 4-A, 6, 8, 13, 13-A, 16.
Nawabputty Street	... 1, 5, 7, 14.
Dilarjung Road	... 1, 4, 5, 6.
Chitpore Ghat Lane	... 1, 3, 6, 8, 9, 10, 17, 19.
Brojo Doyal Shaw Road	... 2, 3, 8.
New Strand Road	... 2, 5.
Pran Kissen Mukerji Lane	... 2, 3, 4, 5, 5A, 6, 7, 10, 11, 12, 13, 14, 15, 16, 18, 20, 25A, 26, 27, 29, 28.
Pran Kissen Mukerji Road	... 2-2, 4, 4A, 5, 8, 9, 6, 7, 9-B, 9A, 10-1, 11-1, 11-4, 11-3, 12, 12-1, 15-1, 15-6, 20, 21, 22-B, 22-C, 22-1-1, 23, 24, 25-1, 25-3, 26-A, 26-D, 26E, 26-2, 26-5-1, 27-1, 28, 26-7, 26-8, 30, 31, 32, 33, 30-2, 34-1, 34-2, 34-3, 34-4, 36, 37, 34-2-1.
Chitpore Street	... 2, 3, 4, 5, 5-A, 7, 9, 10, 11.
Settpooker Road	... 4, 14, 1-6-2.
Chitpore Cross Road	... 1-1, 3, 8, 8-2.
Kali Kumar Banerjee Lane	... 11A, 17-1, 19, 21.
Rustomji Parsee Road	... 5.
Gopi Mandal Lane	... 7.
Kali Charan Sett Road	... 4.
Ranee Road	... 18-1.
Gangulipara Lane	... 2-1.
Paikpara Road	... 13-13, 14-101, 14-91-1, 29-25.
Belgachia Road	... 12-1, 12-2, 13-A, 14, 15-3, 17, 19, 20, 34-2, 34-4, 34-13, 40, 42, 44, 44-1-2, 52-1, 53, 55, 58, 62-2, 62-3, 62-3-1, 62-3-2, 62-8-A, 62-8-1, 62-11, 66-A, 66B, 66-B-1, 68-7, 68-8-1, 68-10, 68-13, 68-15, 68-17, 68-19, 70, 86-1, 88, 91, 94, 99, 101, 102, 103-A, 105, 109, 110.
Khelat Babu Lane	... 26, 35-14.
South Paikpara Road	... 6-1-1.
Nilmani Mitter Street	... 8-A, 8-2-2, 8-3-1-1, 8-3-1-4, 10, 10-1, 15, 16, 17, 21-1.
Srish Chowdhury Lane	... 21, 24-10-1.
Canal Road	... 1-5, 1-11, 1-12, 2-3, 3-1-A, 3-1-B, 3-3, 4, 6, 7-2, 7-3, 7-8-1, 7-10.
Ultadanga Yard (E. B. Railway)	... 129, 130.



**Maniktala Municipality.**

No. 841, dated Narkeldanga, the 22nd May 1919.

From—BABU UPENDRA CHANDRA BANERJEE, M.A., B.L., Chairman,  
Maniktala Municipality.

To—The Magistrate of the 24-Parganas, Alipore.

WITH reference to your letter No. M.327-1-19, dated the 6th May 1919, I have the honour to submit the Annual Report for the year 1918-19 on the working of the Jute Warehouses and Fire Brigade Act during the said year.

(1) The share of expenditure allotted to this municipality by the Commissioner of Police was Rs. 5,082, which was discharged in two instalments.

(2) The revenue during the year of report amounted to Rs. 3,814-14-6.

(3) Licence fees were levied on jute warehouses at the rate of 4 per cent. and 8 per cent. on the annual value of the holdings and at 10 per cent. on trades of other descriptions.

(4) The jute godowns and firewood, hay and straw depôts are mostly situated near the Circular Canal, which bounds the municipality on all sides. The Surah jute mill and the jute pressing mill of Messrs. Landale and Clarke are the two mills situated within this municipality.

(5) The following statements in the prescribed forms are annexed hereto:—

(a) Statement showing the receipts and disbursements for the year 1918-19.

(b) A statement showing the number and locality of jute warehouses.

### STATEMENT I.

**MANIKTALA MUNICIPALITY.**

**Statement showing the Receipts and Disbursements for the year 1918-19.**

Opening debit balance on the 1st April 1918	Rs. 251-4-6.
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*Receipts.*

Description of receipts.	DEMAND.			COLLECTION.			REMISSION.			BALANCE.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.
Licence fees levied under sections 10 and 24.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
	26 6 3	3,956 3 3	3,963 11 6	26 6 3	2,758 8 3	2,814 14 6	---	108 6 6	108 6 6	---	46 6 6	46 6 6
Mutation fee levied under section 11.	---	---	---	---	---	---	---	---	---	---	---	---
Rates levied under section 23 (1) (b) and 25 (1) (a).	---	---	---	---	---	---	---	---	---	---	---	---
Fines and penalties under the Act.	---	---	---	---	---	---	---	---	---	---	---	---
			Deduct—Opening debit balance	---	---	351 6 6						
			Total receipts	---	---	2,563 10 0						

\* Vide explanation under footnote in Statement III.

### Disbursements.

1918-19.

Rs.	A.
100	0
50	0
25	0
10	0
5	0
2	0
1	0
0	0

(1) Establishment	...	...	...	...
(2) Contribution	...	...	...	5,082 0
(3) Any other special items	...	...	...	...
(4) Total	...	...	...	5,082 0
(5) Closing debit balance	...	...	...	1,518 6
(6) Grand Total	...	...	...	3,563 10



**STATEMENT II.**

Statement showing the locality where the jute warehouses are situated.

Name of road.	Number of holdings.
Canal Circular Road ...	1, 2, 4-5, 5, 11-6-2 and 24.
Shaikhpara Road ...	4.
Ariff Road ...	14-1.
Gurudas Dutt Garden Lane...	6-2.
Ultadanga Main Road ...	1, 2, 2-12, 83, 137-1-2 and 130.
Canal East Road ...	3, 5-1, 5-8, 5-9-1, 5-11, 5-13, 5-14-1, 5-15, 5-18, 6, 8, 9, 9-20, 10-6, 12-6, 14-1, 14-3, 14-22, 16-1, 17-1, 20, 21-1, 42-36, 44-4, 48-1, 48-4, 49-1, 49-2, 51-1 51-2, 52-2, 52-3, 52-4, 52-5, 52-7, 52-8, 52-9 and 52-10.
Ultadanga Lane ...	19-21 and 36.
Maniktala Main Road ...	110 and 136-7.
Narikeldanga Main Road ...	93 and 102.
Chaulputty Road ...	4-4, 4-5, 5, 27, 28, 29, 29-2, 31-5, 32-3, 33-1, 34-2, 35-1, 35-A, 36, 37, 39 and 40-1.

No. 117G.M., dated the 2nd June 1919.

From—J. A. MURRAY, ESQ., Chairman, Garden Reach Municipality,  
To—The Magistrate of the 24-Parganas, Alipore.

WITH reference to your letter No. M.-327-1-19, dated the 6th May 1919, I have the honour to report as follows on the working of the Licensed Jute Warehouses and Fire Brigade Act in this municipality for the year 1918-19 and to submit statements I and II in the prescribed form.

2. During the year under report the total income from jute warehouse fees and from rates under section 25(b) of the Fire Brigade Act, as shown in statement I, was Rs. 3,755-2 against Rs. 3,905-14-6 in the previous year. The amount of contribution paid to the Fire Brigade Fund was Rs. 7,622 against Rs. 6,317 in 1917-18.

In levying the jute warehouse fees the limitations prescribed by the provisos under section 10 of the Fire Brigade Act were strictly followed.

3. The rates at which the fees were levied were 8 per cent. on the annual value of all large warehouses, 10 per cent. on the annual value of wood and straw depôts and  $\frac{1}{2}$  per cent. on the annual value of all bustee lands with huts, if any, on them. A list of licensed warehouses within this municipality during the year under review is given in statement II.

**STATEMENT I.****Statement of Receipts and Disbursements.**

Opening balance on 31st April 1919 ... Nil.

*Receipts.*

	DEMAND.			COLLECTION.			REMISSION.			BALANCE.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.
	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs.	Rs. A.	Rs.	Rs. A.	Rs. A.
Licence fees levied under sections 10 and 24.	133 0	3,668 2	3,751 2	133 0	3,481 9	3,609 9	8 0	...	8 0	...	168 9	163 9
Mutation fees levied under section 11.	...	...	...	...	...	...	...	...	...	...	...	...
Rates levied under section 25 (1) (a).	...	...	...	...	...	...	...	...	...	...	...	...
Rates levied under section 25 (1) (b).	40 5	117 15	168 4	40 5	105 4	145 9	...	...	...	...	12 11	12 11
Rates levied under section 25 (1) (c).	...	...	...	...	...	...	...	...	...	...	...	...
Fines and penalties under this Act.	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	173 5	3,786 1	3,959 6	168 5	3,589 13	3,754 2	8 0	...	8 0	...	176 4	176 4



*Disbursements.*

			Rs.
1. Establishment	...	...	...
2. Contribution to Fire Brigade	...	...	7,622
3. Any other special item	...	...	...
4. Total	...	...	7,622
5. Closing balance	...	...	...
6. Grand total	...	...	7,622

**STATEMENT II.**

**List of licensed warehouses for 1918-19.**

Name of street.	Street or Holding number, with the number of warehouses shown in brackets, when there are more than one.
Garden Reach Road	... A-8 (3), A-10, B-8, B-10, C-1, C-3, C-5, E-6 F-43, G-239, B-57.
Ramnagore Lane	... G-212.
Bichalighat Road	... B-105-1, B-118, B-125, B-127, B-130, B-132, B-133, B-146, B-128, B-148,
Batecal	... G-72.
Paharpore Road	... J-200.
Rameswarpore Road	... I-70.
Dum-Dum Road	... Z-I.

**List of warehouses licensed for 1917-18 during 1918-19.**

Garden Reach Road	... A-8, F-34, F-30-1-1, I-19.
Bichalighat	... B-128.
Rameswarpore	... I-90.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 4th September 1919.

**Summary.**—During the week light to moderate rain was general throughout the province. More rain is urgently wanted, especially in some of the northern and eastern districts, for transplanting of winter paddy and steeping and washing of jute. The harvesting of jute is progressing slowly for want of sufficient water for steeping, but that of autumn paddy is going on as usual. The weeding of winter paddy continues. The condition and prospects of standing crops are generally satisfactory. Damage to jute by insects continues to be reported from 24-Parganas and Nadia. The average price of common rice for the province has risen by about 4·24 per cent. as compared with that of the previous week. The daily average number of persons engaged in test works in the Brahmanbaria subdivision, during the week was 32.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SERIES, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	1·35	4½	4	Transplanting of <i>aman</i> paddy and harvesting of <i>aus</i> paddy continue. Condition and prospects of jute are good. Effects of weather on the crop are good. Damage by insects is reported from some places in Barasat subdivision. Harvesting of jute is progressing. Fodder and water are sufficient.
	Diamond Harbour.	(n)	(n)	(n)	
	Barrackpore	0·69	4	4½	
	Barasat ...	3·16	4	5	
	Basirhat ...	(n)	(n)	4½	
2	NADIA ...	1·14	4½	4½	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy and steeping of jute continue. Effects of weather are favourable. Some damage to jute has been done by insect-pests.
	Kushtia ...	7·29	4	5	
	Meherpur ...	1·48	6½	6½	
	Chuadanga ...	2·33	4½	5	
	Ranaghat ...	1·82	4	(n)	
3	MURSHIDABAD	2·32	4½	5	Prospects of standing crops are good. Harvesting of <i>aus</i> paddy and transplanting and weeding of <i>aman</i> paddy continue. More rain is wanted in many parts of the district. Condition and prospects of jute are good. Effects of weather are favourable to its growth. Harvesting continues. Cattle-disease is reported from Sagardighi and Nabagram thanas. Fodder is sufficient. Export of rice is going on from Lalbagh, Kandi and Jangipur subdivisions. Price of rice is rising.
	Lalbagh ...	1·07	5	5	
	Jangipur ...	0·76	4½	4½	
	Kandi ...	2·38	4½	5	
4	JESSORE ...	2·91	4	5	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy continue. Standing crops are doing well. Slight damage to jute and <i>aus</i> paddy has been done by floods in Narail subdivision. Condition and prospects of jute are fair. Steeping and washing continue.
	Jhenidah ...	1·72	5	5	
	Magura ...	3·23	5	5	
	Narail ...	3·17	4½	4½	
	Bangaon ...	2·86	4½	4½	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKUS, PER MURREE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
5	KHULNA ...	2.23	3 <sup>9</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	Transplantation of <i>aman</i> paddy is going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cutting and steeping are going on. Water and fodder sufficient.
	Satkhira ...	1.73	5	5	
	Bagerhat ...	3.14	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
6	BURDWAN ...	3.74	4	4 <sup>1</sup> / <sub>2</sub>	Weather rainy. Transplanting of <i>aman</i> paddy is nearly finished. Condition of sugarcane is good. Weeding of <i>aman</i> paddy and harvesting of jute and <i>aus</i> paddy continue. Prices are abnormally high on account of exports.
	Asansol ...	1.27	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Katwa ...	1.09	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Kalna ...	0.40	3 <sup>1</sup> / <sub>2</sub>	4	
7	BIRBHUM ...	1.60	4 <sup>1</sup> / <sub>2</sub>	5	Transplantation of winter paddy is over. Prospects of standing crops are favourable. Fodder and water are sufficient.
	Rampurhat ...	1.07	5	5 <sup>1</sup> / <sub>2</sub>	
8	BANKURA ...	3.35	4 <sup>1</sup> / <sub>2</sub>	5	Early variety of <i>aus</i> paddy and maize are being harvested. Prospects of standing crops are good. Export of rice and paddy continues. Price is rising owing to shortage of import.
	Vishnupur ...	6.79	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
9	MIDNAPORE	0.62	{ 5° 5 <sup>1</sup> / <sub>16</sub> †	5 <sup>1</sup> / <sub>2</sub>	Harvesting of jute continues. In Tamruk subdivision the crop is slightly damaged owing to excessive rainfall, elsewhere its condition is good. Prospects of winter rice are good, though some damage is reported from Contai on account of excessive rainfall. The transplanting of winter paddy is nearly finished. Cattle disease is reported from Contai, Khejri and Bahiri thanas.
	Ghatal ...	3.31	{ 4 <sup>1</sup> / <sub>2</sub> ° 5 <sup>1</sup> / <sub>2</sub>	4 <sup>9</sup> / <sub>16</sub>	
	Tamluk ...	2.38	{ 4 <sup>1</sup> / <sub>2</sub> ° 5 <sup>1</sup> / <sub>2</sub>	5	
	Contai ...	1.74	{ 6° 6 <sup>1</sup> / <sub>4</sub> †	5 <sup>1</sup> / <sub>2</sub>	
10	HOOGLY ...	0.93	4°	4 <sup>1</sup> / <sub>2</sub>	Effects of weather on the growth of the crops are favourable. Price of rice is rising. Condition and prospects of jute are fair. Harvesting is going on. Fodder is sufficient.
	Serampore ...	0.79	4 <sup>5</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Arambagh ...	13.52	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
11	HOWRAH ...	1.38	4	4	Weather rainy. Condition of sugarcane is good. Transplantation of <i>aman</i> paddy is almost over. Condition of jute is good. Harvesting of jute continues in lowlands. Fodder is sufficient.
	Ulubaria ...	6.14	3 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	
12	RAJSHAHI (RAMPUR-BOALIA).	1.45	4 <sup>5</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	The prospects of jute and other standing crops are favourable. Harvesting of jute and <i>aus</i> paddy and transplanting of winter paddy continue. Fodder is sufficient.
	Naogaon ...	1.62	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Nator ...	1.80	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	

\*Common rice.

†Coarse rice.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEEDS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ...	1.32	3½	4½	Weather seasonable. Prospects of standing crops are fair. Harvesting of jute and other <i>bhadori</i> crops continues. More rain is wanted at Sadar and Thakurgaon for transplantation of <i>aman</i> paddy. Fodder is sufficient. Rice market is stationary at Balurghat, but rising at Sadar and Thakurgaon.
	Thakurgaon	2.66	3½	5	
	Balurghat ...	2.42	4½	4½	
14	JALPAIGURI	3.85	3½	5	Prospects of standing crops are fair. More rain is wanted for transplantation of winter paddy. Fodder and water are sufficient.
	Alipur ...	3.66	4	4	
15	DARJEELING	5.63	5½	4½	Harvesting of potatoes, cardamom and maize continues. <i>Marua</i> growing well. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Transplanting of autumn paddy and harvesting and steeping of jute are being retarded owing to insufficient rainfall. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	5.86	5½	4½	
	Siliguri ...	2.63	4	4	
	Kalimpong ...	3.55	5½	5½	
16	RANGPUR ...	1.92	4½	4½	Weather seasonable. Harvesting of <i>aus</i> paddy is finished. More rain is urgently wanted for transplanting of winter rice and steeping and washing of jute. Weather is not favourable for winter rice. Fodder and water are sufficient. Price of rice is rising. Export is going on. Cattle-disease is reported from Lalmonirhat and Sadullapur thanas.
	Nilphamari	1.38	4	4	
	Kurigram ...	2.71	4	4½	
	Gaibandha ...	1.96	4½	4½	
17	BOGRA ...	2.48	4½	4½	Transplanting of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Steeping and washing of jute are retarded for low flood.
18	PABNA ...	3.06	4½	5	<i>Aus</i> paddy has been harvested. Harvesting of jute continues. Water is insufficient for steeping of jute. Prospect of <i>aman</i> paddy is fair in Sadar subdivisions, but not good in Sirajganj. Supply of fodder is tolerable.
	Sirajganj ...	(n)	(n)	4	

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
19	MALDA ..	3.92	4	4½	Transplanting of winter rice is still going on. Prospects of jute are fair. No damage to crop is reported. Harvesting continues. Fodder and water are sufficient. Cattle-disease is reported from Bholahat and Englishbazar thanas.
20	COOCH BEHAR	6.83	7½	7½	Weather seasonable. Transplantation of <i>haimanti</i> paddy seedlings and steeping and washing of jute continue. Effects of weather on the growth of jute are good. Fodder is sufficient.
21	DACCA ...	8.68	3½	3½	Weather seasonable. Heavy rain has benefited <i>aman</i> paddy, but the lowness of water level is hindering the steeping of jute. Condition and prospects of standing crops are fair. Cattle-disease is reported from parts of Narayanganj subdivision.
	Manikganj ...	3.12	3½	4	
	Narayanganj	3.69	3½	3½	
	Munshiganj*	4.90	3½	(n)	
22	MYMENSINGH	1.62	3½	3½	Weather cloudy with occasional showers. More rain is badly wanted. Harvesting of jute and <i>aus</i> paddy continues, but steeping of jute and transplantation of paddy are being impeded for want of water. Prospects of crops are fair, but their growth is being affected. Fodder is sufficient. Cattle-disease is reported from places.
	Jamalpur ...	0.57	3½	3½	
	Tangail ...	(n)	(n)	(n)	
	Netrakona ...	2.42	3½	3½	
	Kishorganj...	5.78	3½	3½	
23	FARIDPUR ...	5.26	3½	3½	Weather is favourable to the standing crops. Harvesting of jute still continues. Prospects of standing crops are good. Fodder is available. Rangoon rice is being imported.
	Goalando ...	2.06	4½	4½	
	Madaripur ...	5.04	3½	4	
	Gopalganj†...	4.76	3½	4	
24	BAKARGANJ (BARISAL).	2.62	3½	3½	Prospects of jute are good; weather is favourable. No damage done to the crop. Harvesting is nearly finished. Prospects of other crops are fair. Fodder is sufficient.
	Pirojpur ...	4.04	3½	3½	
	Patuakhali...	7.01	4½	3½	
	Dakshin Shahazpur (Bhola).	3.33	4½	3½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridasapur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ Aus rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
25	CHITTAGONG	3.66	4½	4½	Prospects of standing crops are good. Cultivation of <i>aman</i> paddy is going on. Harvesting of <i>aus</i> paddy is progressing. <i>Panga</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
	Cox's Bazar	8.90	4½	4½	
26	TIPPERA (COMILLA).	2.95	4½	4½	Weather seasonable but hot. More rain is wanted. The prospects of <i>aus</i> paddy are fair and those of jute are good. The price of rice still runs high. Harvesting of jute and <i>aus</i> paddy and transplanting of <i>aman</i> paddy are going on. Thirty-one men and one child worked daily on an average for eradicating water hyacinth in Brahmanbaria subdivision.
	Brahmanbaria.	1.36	4	4	
	Chandpur ...	4.35	4½	4½	
27	NOAKHALI ...	9.01	3½	3½	Weather seasonable. Prospects of standing crops are good. Transplantation of <i>aman</i> paddy and harvesting of jute continue. Prospects of jute and the effects of weather on its growth are fair in the Sadar and good in the Feni subdivision. Fodder sufficient.
	Feni ...	3.81	{ 3½ 4½ }	{ 3½ 4½ }	
28	CHITTAGONG HILL TRACTS.	6.13	{ 4½ 7½ }	{ 5 }	Sowing of paddy on high land has begun. Fodder is sufficient.

\* *Aus* rice. | † Local rice.J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA, the 8th September 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 6th September 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	9 8 0	10 0 0	0 4 0	0 4 3
" medium ...	10 4 0	10 12 0	0 4 6	0 5 0
Patnai, coarse ...	9 8 0	10 2 0	0 4 0	0 4 3
" medium ...	10 4 0	10 10 0	0 4 6	0 4 9
Nagra, coarse ...	9 8 0	10 2 0	0 4 0	0 4 3
" medium ...	10 4 0	10 10 0	0 4 6	0 5 0
Dadhkalma ...	10 0 0	10 8 0	0 4 0	0 5 0
Rangoon Boiled	.....	.....	.....	.....
Kajla ...	8 10 0	.....	0 4 0	.....
Wheat, Dudhia ...	7 12 0	8 0 0	.....	.....
" Gangajali ...	.....	.....	.....	.....
" Jamali ...	7 6 0	7 8 0	.....	.....
Gram, Patnai (whole) ...	7 4 0	8 0 0	0 3 0	0 3 6
" dal ...	8 8 0	9 4 0	0 4 0	0 4 6
Mung " (Hari) ...	11 0 0	12 0 0	0 6 0	0 8 0
" (Krishna) ...	10 8 0	11 0 0	0 5 0	0 6 6
Arhar " ...	8 8 0	11 0 0	0 4 0	0 5 6
Masur " (split) ...	7 0 0	8 4 0	0 3 3	0 3 6
" (Khanri)...	9 0 0	9 12 0	0 3 9	0 5 0
Kalai " ...	7 8 0	8 8 0	0 3 6	0 5 0
Salt ...	3 4 0	3 6 0	0 1 6	0 1 9
Sugar (Brown Java) ...	16 12 0	.....	0 7 6	0 8 0
Gur, Bheli ...	.....	.....	.....	.....
" Bhursut ...	9 4 0	9 12 0	0 6 0	.....
Milk ...	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil ...	38 8 0	40 0 0	1 0 0	2 0 0
Flour, country ...	9 6 0	10 10 0	0 3 3	0 5 6
Atta, No. 3 ...	8 0 0	} .....	0 4 0	0 5 6
" " 2½ ...	8 2 0			
" " B ...	10 13 6			
Suji ...	10 0 0	11 0 0	0 5 0	0 6 6
Ghee (Bhadwa, Matki, etc.) ...	91 0 0	92 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	86 0 0	87 0 0	2 4 0	.....
" (Lalli, Etwa, Sagar, etc.)...	79 0 0	80 0 0	2 0 0	.....
Maize ...	7 0 0	7 4 0	.....	.....
Potato ...	6 4 0	7 0 0	0 3 0	0 3 6
Patal ...	4 8 0	4 12 0	0 2 0	0 3 0
Brinjal ...	4 0 0	4 4 0	0 2 0	0 2 6
Onion ...	3 12 0	4 12 0	0 2 0	0 2 6
Fish, Rahu ...	25 0 0	30 0 0	0 10 0	1 0 0
Mutton (2nd class) ...	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes) ...	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphanganj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jugu Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 8th September 1919.



## IRRIGATION DEPART

**Statement showing heights over mean sea-level and low water in the July 19 19, and the highest reading of each gauge over**

* RIVER GANGES.											
Date.	Mirzapore. Zero of gauge 205.23 ft.		Benares. Zero of gauge 194.80 ft.		Buxar. Zero of gauge 167.66 ft.		Dinapore. Zero of gauge 134.23 ft.		Monghyr. Zero of gauge 101.83 ft.(a)		
	Distance in miles.	From Allahabad 86.	From Allahabad 124.	From Mirzapur 48.	From Benares 90.	From Benares 177.	From Buxar 87.	From Benares 287.	From Dinapore 110.		
		Highest gauge reading.	2nd September 1916. 205.7.	2nd September 1916. 244.30.	3rd and 4th Septem- ber 1916- 202.30.	5th September 1901 and 4th August 1917. 169.78.	8th September 1901. 128.60.				
		Lowest gauge reading.	28th June 1897. 167.20.	1st May 1877. 182.80.	10th to 14th May 1914. 160.80.	30th April 1913. 135.12.	30th April to 6th May 1914. 96.00.				
	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	
1	2	3	4	5	6	7	8	9	10	11	12
1st	...	11.08	217.30	4.00	200.80	3.33	170.88	16.20	150.43	12.17	114.00
2nd	...	11.83	218.05	4.67	201.47	4.42	171.97	16.40	150.63	11.57	113.40
3rd	...	11.83	218.05	5.08	201.88	5.58	173.13	16.50	150.73	11.67	113.50
4th	...	11.83	218.05	5.08	201.88	5.25	172.80	16.70	150.93	11.87	113.70
5th	...	11.75	217.97	5.50	202.30	6.42	173.97	16.90	151.13	12.07	113.90
6th	...	12.92	219.14	7.17	203.97	7.42	174.97	17.60	151.83	12.27	114.10
7th	...	15.17	221.39	7.83	204.63	9.42	176.97	18.60	152.83	13.37	115.20
8th	...	15.50	221.72	9.33	206.13	10.50	178.06	19.80	154.03	14.57	116.40
9th	...	24.17	230.39	16.33	213.13	12.00	179.55	21.20	155.43	14.87	116.70
10th	...	28.75	234.97	24.00	220.80	18.92	186.47	22.10	156.33	15.47	117.30
11th	...	25.17	234.39	24.00	220.80	22.42	189.97	24.70	158.93	16.47	118.30
12th	...	25.75	231.97	22.17	218.97	22.42	189.97	25.60	159.83	17.87	119.70
13th	...	23.75	229.97	20.08	216.88	21.00	188.55	25.40	159.63	18.27	120.10
14th	...	23.33	229.55	18.83	215.63	20.08	187.63	24.70	158.93	18.37	120.20
15th	...	24.17	230.39	18.83	215.63	19.67	187.22	24.30	158.53	17.87	119.70
16th	...	29.25	235.47	23.67	222.47	20.67	188.22	24.00	158.23	17.47	119.30
17th	...	31.75	237.97	27.00	223.80	23.67	191.22	24.70	158.93	17.27	119.10
18th	...	32.92	239.14	28.50	225.30	25.33	192.88	26.30	160.53	17.87	119.70
19th	...	33.83	240.05	29.50	226.30	26.17	193.72	27.40	161.63	18.87	120.70
20th	...	34.25	240.47	30.00	226.80	26.83	194.38	27.70	161.93	19.37	121.20
21st	...	33.83	240.05	29.67	226.47	27.08	194.63	27.70	161.93	19.67	121.50
22nd	...	33.25	239.47	28.83	225.63	26.75	194.30	28.00	162.23	20.27	122.10
23rd	...	33.92	240.14	29.50	226.30	26.83	194.38	28.60	162.83	20.47	122.30
24th	...	34.17	240.39	30.00	226.80	27.00	194.55	28.50	162.73	20.47	122.30
25th	...	34.33	240.55	30.00	226.80	27.17	194.72	28.30	162.53	20.37	122.20
26th	...	34.25	240.47	29.83	226.63	27.83	195.38	28.30	162.53	20.37	122.20
27th	...	34.17	240.39	30.00	226.80	27.50	195.05	28.40	162.63	20.27	122.10
28th	...	33.38	239.55	28.58	225.38	27.33	194.88	28.50	162.73	20.37	122.20
29th	...	32.50	238.72	28.00	224.80	27.00	194.55	28.00	162.23	20.37	122.20
30th	...	32.33	238.55	27.00	223.80	25.75	193.30	27.40	161.63	19.97	121.80
31st	...	31.33	237.55	26.17	222.97	25.17	192.72	27.10	161.33	19.67	121.50

\* New gauge fixed at Rajmahal from 1st June 1910 in place of the gauge at Sahibganj. The zero of gauge at Rajmahal 56.46 ft. above M.S.L. from 10th February 1916 to 15th June 1916. From the 16th June 1916 to 6th April 1919 it is 56.319 ft. above M.S.L.

† To compare the reduced levels shown in these monthly printed statements before and after the 1st June 1903, 5.78 ft. October 1903).

(a) A new gauge fixed at Monghyr on 16th July 1914.

(b) From the 1st November 1915 the zero of gauge was 2.48 ft. above M.S.L. Previous to that the zero was at M.S.L. zero is 1.809 ft. above M.S.L.

(c) From the 25th January 1916 to 4th April 1919 the zero of gauge at Berhampore was 30.99 ft. above M.S.L. From

(d) From the 26th October 1916 a temporary wooden gauge with its zero at 49.00 ft. above M.S.L. was erected at 3rd June 1919. From 4th June 1919, the zero is 1.51 ft. above M.S.L.

(e) Gauge shifted from Subik Goshundo to Fakirabad from 30th June 1919.

The 9th September 1919.



## MENT, BENGAL.

*rivers Ganges, Bhagirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge-reading since 1876.*

						RIVER BHAGI- RATHI.		RIVER JALANGI.		RIVER BRAHMA- PUTRA.	
Rajmahal. Zero of gauge 56'31' ft.		Rampur-Boalia. Zero of gauge 1'51 ft. (d)		Goalundo. (e) Zero of gauge is at mean sea-level.		Berhampore. Zero of gauge 32'49' (c)		Sarugani. (b) Zero of gauge 1'500.		Gauhati. Zero of gauge 14'76 ft.	
From Benares 407.	From Mouhlyr 120.	From Benares 471.	From Rajmahal 64.	From Benares 591.	From Rampur- Boalia 120.						
14th August 1915. 88'46.		26th August 1879. 69'35.		29th August 1906 and 14th September 1916. 28'75.†		14th August 1890. 61'70.		25th September 1900. 25'03.		24th August 1906. 181'11.	
2nd May 1910. 54'62.		23rd April 1886. 57'63.		26th March 1910. 2'25.		19th to 26th April 1917 32'40.		28th March 1915. 3'13.		9th February 1888. 43'46.	
Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
12	13	15	16	17	18	19	20	21	22	23	24
16'00	72'319	47'89	49'40	19'90	19'90	6'40	38'599	6'26	7'769	26'70	175'46
15'35	71'569	47'59	49'10	20'30	20'30	6'20	38'699	6'33	8'339	25'90	174'66
15'00	71'319	47'19	48'70	20'10	20'10	5'60	38'099	7'32	8'829	25'60	174'36
14'90	71'219	46'99	48'50	19'80	19'80	5'00	37'499	7'19	8'699	25'10	173'86
15'20	71'519	46'99	48'50	19'50	19'50	4'30	36'799	8'96	9'469	24'90	173'66
15'25	71'569	46'99	48'50	19'60	19'60	4'10	36'599	8'06	9'569	24'90	173'66
15'70	72'019	47'29	48'80	19'30	19'30	4'80	37'299	8'03	9'539	24'80	173'56
16'40	72'719	47'64	49'15	19'40	19'40	5'20	37'699	8'20	9'709	24'60	173'36
17'40	73'719	48'39	49'90	19'50	19'50	6'60	39'099	9'30	11'409	24'80	173'56
18'60	74'919	49'29	50'80	19'70	19'70	7'60	40'099	10'30	11'809	25'60	174'36
19'25	75'569	50'34	51'85	19'90	19'90	9'30	41'799	10'56	12'069	25'90	174'66
20'75	76'569	51'09	52'60	20'10	20'10	10'60	43'099	11'34	12'849	26'50	175'26
21'10	77'419	52'19	53'70	20'40	20'40	13'20	45'699	12'13	13'639	26'80	175'56
21'40	77'719	52'89	54'40	20'80	20'80	14'20	46'799	13'10	14'609	27'10	176'86
21'65	77'969	53'24	54'75	21'00	21'00	15'10	47'599	15'11	16'619	27'00	175'76
21'40	77'719	53'29	54'80	20'30	20'30	15'70	48'199	18'26	19'769	26'90	175'66
21'05	77'369	53'19	54'70	21'60	21'60	15'80	48'299	19'59	21'099	26'60	175'36
21'00	77'319	52'99	54'50	21'70	21'70	15'60	48'099	19'68	21'189	27'00	175'76
21'60	77'919	53'29	54'80	21'70	21'70	15'50	47'999	19'29	20'799	27'00	175'76
22'25	78'569	53'99	55'50	22'20	22'20	16'60	49'099	20'04	21'549	26'80	175'56
22'90	79'219	54'99	56'50	22'50	22'50	17'90	50'399	21'16	22'669	26'50	175'23
23'50	79'819	55'29	56'80	22'60	22'60	19'30	51'799	21'98	23'489	26'10	174'86
23'75	80'069	55'79	57'30	22'80	22'80	20'20	52'699	22'70	24'209	25'90	174'66
24'00	80'319	56'04	57'55	23'00	23'00	20'60	53'099	23'76	25'269	25'50	174'26
23'95	80'269	55'99	57'50	23'10	23'10	20'60	53'099	24'31	25'819	25'40	174'16
23'85	80'169	56'09	57'60	23'20	23'20	20'30	52'799	24'57	26'079	25'30	174'06
23'55	79'869	55'99	57'50	23'20	23'20	20'00	52'499	24'53	26'039	24'60	173'36
23'45	79'769	55'94	57'45	23'10	23'10	19'70	52'199	24'59	26'099	24'20	172'96
23'45	79'769	55'94	57'45	23'00	23'00	19'30	51'799	24'37	25'879	24'10	172'86
23'35	79'669	55'79	57'30	23'00	23'00	19'10	51'599	24'12	25'629	22'80	171'56
22'90	79'219	55'49	57'00	23'10	23'10	18'70	51'199	23'81	25'319	22'00	170'76

was 56'46 ft. above M.S.-L. up to 26th October 1915 and 80'00 ft. above M.S.-L. from 27th October 1915. The zero was again it was 54'81 ft. above M.S.-L. from 7th to 15th April 1919 it was 56'32 ft. above M.S.-L. and from 16th should be deducted from the former or added to the latter (vide Bengal Government letter No. 1083T.—I., dated the 12th

dating back 16th July 1897. Zero was at M.S.-L. from 1st April 1918 to 18th April 1919. Again from 14th April 1919 the 5th April 1919 the zero is 32'490 ft. above M.S.-L.

Rampur-Boalia in place of the permanent gauge washed away. The zero of gauge was at M.S.-L. from 26th June 1918, till

G. J. ST. C. SEDGLEY,

Under-Secy. to the Govt. of Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	29th Aug. 1919	6 A.M. ...	23.77'	101.83'	125.60'	...	0.50	121.70'	123.00'	
	29th "	6 "	25.95'	56.319'	82.269'	...	0.23'	80.46'	81.52'	
	29th "	8 hours ...	22.30'	...	...	...	0.20'	20.50'	24.90'	
Brahmaputra	29th "	8 A.M. ...	14.60'	148.76'	163.36'	...	0.10'	167.46'	175.86'	
	29th "	12 hours ...	33.70'	...	...	...	0.10'	...	...	
	29th "	8 A.M. "	14.25'	...	...	0.30	...	...	...	
Meghna	29th "	6 hours ...	15.42'	1.61'	17.03'	Steady		...	...	
	29th "	8.30 "	12.33'	1.61'	13.94'	...	0.09'	...	...	
	29th "	7 A.M. ...	24.70'	...	...	...	0.05'	...	...	
Dhaleswari	29th "	7 "	26.00'	-8.62'	17.38'	0.10'	...	...	...	
Bhagirathi	29th "	6 "	27.25'	1.509'	28.759'	...	0.14'	26.03'	30.30'	
Damodar	29th "	6 "	10.83'	92.58'	103.41'	4.08'	...	...	...	
Lakhya	29th "	...	21.17'	-5.59'	15.58'	...	0.12'	...	...	
Madaripur Bil Route	29th "	6 A.M. ...	13.20'	-0.599'	12.601'	0.20	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	30th August 1919	6 A.M. ...	23.67'	101.83'	125.50'	...	0.10'	121.70'	122.70'	
	30th "	6 " ...	25.60'	56.319'	81.919'	...	0.35'	80.41'	81.61'	
	30th "	8 hours ...	22.20'	...	...	...	0.10'	20.30'	25.00'	
Brahmaputra	30th "	8 A.M. ...	14.30'	148.76'	163.66'	0.30'	...	168.86'	173.66'	
	30th "	12 hours ...	33.60'	...	...	...	0.10'	...	...	
	30th "	8 A.M. ...	14.50'	...	...	0.25'	...	...	...	
Meghna	30th "	6 hours ...	15.33'	1.61'	16.94'	...	0.09'	...	...	
	30th "	9 " ...	12.00'	1.61'	13.61'	...	0.33'	...	...	
	30th "	7 A.M. ...	24.50'	...	...	...	0.20'	...	...	
Dhaleswari	30th "	7 " ...	25.80'	- 8.62'	17.18'	...	0.20'	...	...	
	30th "	6 " ...	27.23'	1.509'	28.739'	...	0.02'	25.28'	30.89'	
Damodar	30th "	6 " ...	9.00'	92.58'	101.58'	...	1.83'	...	...	
Lakhya	30th "	...	20.92'	- 5.59'	15.33'	...	0.25'	...	...	
Madaripur Bil Route	30th "	6 A.M. ...	13.20'	- 0.599'	12.601'	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	31st Aug. 1919	6 A.M. ...	23.67'	101.83'	125.50'	Steady		121.90'	122.30'	
	31st "	6 "	25.30'	56.119'	81.619'	...	0.30'	80.46'	81.46'	
	31st "	8 hours ...	22.00'	...	...	...	0.20'	20.20'	25.10'	
Brahmaputra	31st "	8 A.M. ...	15.10'	148.76'	163.86'	0.20	...	169.46'	175.16'	
	31st "	12 hours ...	33.20'	...	...	...	0.40'	...	...	
	31st "	8 A.M. ...	14.50'	...	...	Steady		...	...	
Meghna	31st "	6 hours ...	15.42'	1.61'	17.03'	0.09'	...	...	...	
	31st "	9-30 hours	11.75'	1.61'	13.36'	...	0.25'	...	...	
	31st "	7 A.M. ...	24.40'	...	...	...	0.10'	...	...	
Dhaleswari	31st "	7 "	25.70'	- 8.62'	17.08'	...	0.10'	...	...	
Bhagirathi	31st "	6 "	27.14'	1.509'	28.649'	...	0.09'	24.53'	30.95'	
Damodar	31st "	C "	8.67'	92.58'	101.25'	...	0.33'	...	...	
Lakhya	31st "	...	20.94'	- 5.59'	15.35'	0.02'	...	...	...	
Madaripur Bil Route	31st "	6 A.M. ...	13.10'	- 0.599'	12.501'	...	0.10'	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	Monghyr ...	1st Sept. 1919	6 A.M. ...	25.47'	101.83'	125.30'	...	122.20'	121.40'	
	Rajmahal ...	1st "	6 "	25.10'	56.319'	81.419'	...	80.61'	81.21'	
	Goalundo ...	1st "	8 hours ...	22.00'	...	...	Steady	20.40'	25.20'	
Brahmaputra	Gauhati ...	1st "	8 A.M. ...	15.40'	148.76'	164.16'	0.30'	170.26'	174.46'	
	Serajganj ...	1st "	12 hours ...	33.00'	...	...	0.20'	...	...	
	Dibrugarh ...	1st "	8 A.M. ...	14.70'	...	...	0.20'	...	...	
Meghna	Bhairab Bazar ...	1st "	6 hours ...	15.33'	1.61'	16.94'	...	...	...	
	Chandpur ...	1st "	10 "	12.25'	1.61'	13.86'	0.50'	...	...	
	Fenchuganj ...	1st "	7 A.M. ...	24.30'	...	...	0.10'	...	...	
Dhaleswari	Sabhar ...	1st "	7 "	25.50'	-8.62'	16.88'	...	...	...	
Bhagirathi	Swarupganj ...	1st "	6 "	26.93'	1.509'	28.439'	...	23.98'	30.87'	
Damodar	Edilpur ...	1st "	6 "	10.08'	92.58'	102.66'	1.41'	...	...	
Lakhya	Narayanganj ...	1st "	...	21.02'	-5.59'	15.43'	0.08'	...	...	
Madaripur Bil Route	Takerhat ...	1st "	6 A.M. ...	13.10'	-0.599'	12.501'	Steady	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	Compared with previous day's height.		Height above P. W. D. datum on same date in—		Remarks.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	2nd Sept. 1919	23.47'	101.83'	125.30'	Steady		122.30'	121.10'	
	Rajmahal ...	" "	25.15'	56.319'	81.469'	0.05'	...	80.76'	80.71'	
	Goalundo ...	" "	21.80'	...	...	...	0.02'	29.80'	25.10'	
Brahmaputra	Gaubati ...	" "	15.70'	148.76'	164.46'	0.30'	...	171.16'	173.76'	
	Seraiganj ...	" "	32.90'	...	...	...	0.10'	...	...	
	Dibrugarh ...	" "	15.40'	...	...	0.70'	...	...	...	
Meghna	Bhairab Bazar	" "	15.25'	1.61'	16.86'	...	0.08'	...	...	
	Chandpur ..	" "	11.75'	1.61'	13.36'	...	0.50'	...	...	
	Fenchuganj ...	" "	24.20'	...	...	...	0.10'	...	...	
Dhaleswari	Sabhar ...	" "	25.50'	- 8.62'	16.88'	Steady		...	...	
Bhagirathi	Swarupganj ...	" "	26.70'	1.509'	28.209'	...	0.23'	23.61'	30.68'	
Damodar	Edilpur ...	" "	12.00'	92.58'	104.58'	1.92'	...	...	...	
Lakhya	Narayanganj	" "	20.58'	- 5.59'	14.99'	...	0.44'	...	...	
Madaripur Bil Route	Takerhat ...	" "	13.10'	- 0.599'	12.501'	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken	Date	Hour	Reading on gauge	Value of zero referred to P. W. D. datum	Height above P. W. D. datum	Compared with previous day's height		Height above P. W. D. datum on same date in—		Remarks
						Rise	Fall	1917	1918	
Ganges	Menghyr ...	3rd Sept. 1919	6 A.M.	23.57'	101.83'	125.40'	0.10'	...	122.40'	120.90'
	Rajmahal ...	3rd " "	6 "	25.05'	56.319'	81.369'	...	0.10'	80.86'	80.26'
	Goalundo ...	3rd " "	8 hours	21.60'	...	...	...	0.20'	21.20'	25.00'
Brahmaputra	Gauhati ...	3rd " "	8 A.M.	16.10'	148.76'	164.86'	0.40'	...	171.86'	173.46'
	Seraiganj ...	3rd " "	12 hours	32.80'	...	...	...	0.10'	...	...
	Dibrugarh ...	3rd " "	8 A.M.	15.80'	...	...	0.40'	...	...	...
Meghna	Bhairab Bazar ...	3rd " "	6 hours	15.17'	1.61'	16.78'	...	0.08'	...	...
	Chandpur ...	3rd " "	12 "	11.00'	1.61'	12.61'	...	0.75'	...	...
	Fenchuganj ...	3rd " "	7 A.M.	24.10'	...	...	...	0.10'	...	...
Dhaleswari	Sabhar ...	3rd " "	7 "	25.50'	-8.62'	16.88'	Steady	...	...	...
Bhagirathi	Swarupganj ...	3rd " "	6 "	26.43'	1.503'	27.939'	...	0.27'	23.55'	30.47'
Damodar	Edilpur ...	3rd " "	6 "	12.92'	92.58'	105.50'	0.92'	...	...	...
Lakhya	Narayanganj ...	3rd " "	...	20.23'	-5.59'	14.64'	...	0.35'	...	...
Madaripur Bil Ronte	Takerhat ...	3rd " "	6 A.M.	13.00'	-0.599'	12.401'	...	0.10'	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 4th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	4th Sept. 1919	6 A.M. ...	24.67'	101.83'	126.50'	1.10'	...	122.40'	121.00'
	... Rajmahal ...	4th "	6 "	25.30'	56.319'	81.619'	0.25'	...	81.01'	79.86'
	... Goalundo ...	4th "	8 hours ...	21.50'	...	...	...	0.10'	21.40'	24.90'
Brahmaputra	... Gauhati ...	4th "	8 A.M. ...	16.60'	148.76'	165.36'	0.50'	...	172.26'	172.86'
	... Serajganj ...	4th "	12 hours ...	33.00'	...	...	0.20'	...	...	...
	... Dibrugarh ...	4th "	8 A.M. ...	17.20'	...	...	1.40'	...	...	...
Meghna	... Bhairab Pazar ...	4th "	6 hours	15.08'	1.61'	16.69'	...	0.09'	...	...
	... Chandpur ...	4th "	13 "	10.50'	1.61'	12.11'	...	0.50'	...	...
	... Fenchuganj ...	4th "	7 A.M. ...	23.90'	...	...	...	0.20'	...	...
Dhaleswari	... Sabbar ...	4th "	7 "	25.50'	-8.62'	16.88'	Steady	...	...	...
Bhagirathi	... Swarupganj ...	4th "	6 "	26.21'	1.509'	27.719'	...	0.22'	23.91'	30.24'
Damodar	... Edilpur ...	4th "	6 "	12.00'	92.58'	104.58'	...	0.92'	...	...
Lakhya	... Narayaniganj ...	4th "	...	20.08'	-5.59'	14.49'	...	0.15'	...	...
Madaripur Bil Route	... Takerhat ...	4th "	6 A.M. ...	13.00'	-0.599'	12.401'	Steady	...	...	...



**GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.**

*Approximate return of traffic on the Olroular and Eastern Canals for the week ending Saturday, the 6th September 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 6TH SEPTEMBER 1919.			WEEK ENDING SATURDAY, THE 7TH SEPTEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	531	54,755	791	930	129,822	2,023
Jute ...	149	49,517*	525	83	35,030†	380
Firewood ...	57	36,475	388	171	65,425	1,024
Other articles ...	829	203,178	2,203	762	173,091	1,947
Total ...	1,566	333,925	3,902	1,946	403,368	5,374
Empty boats and rafts ...	446	...	1,142	557	...	1,866
GRAND TOTAL	2,012	333,925	5,044	2,503	403,368	6,740

Mds.  
\* Weight by canal measurement ... 55,3134  
† Ditto ditto ... 44,876

CALCUTTA,  
The 9th September 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

*Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 30th August 1919.*

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
24th Aug.	63.75	...	...	...	...	63.7	
25th "	63.8	...	...	...	...	64.1	
26th "	64.3	...	...	...	...	64.4	
27th "	64.5	...	...	...	...	64.5	
28th "	64.5	...	...	...	...	64.55	
29th "	64.55	...	...	...	...	64.5	
30th "	64.45	...	...	...	...	64.3	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.18	
31st "	1915	...	...	...	96.7	
18th "	1916	...	...	...	68.1	Taken at low tide.
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
13th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.80	
15th "	1916	...	...	...	50.60	
8th March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 3rd September 1919.

W. J. KERR,  
Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 30th August 1919.**

Date.	Hour.	Height of surface above or below zero : minus a ga. for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
24th August	8 A.M.	Zero of gauge is at mean sea-level.	61.20	57.71	B. M. on College step corrected (P. W. D.) 64.93.
25th "	8 "		61.15	58.91	
26th "	8 "		61.00	60.31	
27th "	8 "		60.95	61.16	
28th "	8 "		60.90	61.51	
29th "	8 "		60.80	61.71	
30th "	8 "		60.50	61.61	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. 2876 dated 8-3-17, 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

			Old value.	According to P. W. D. datum.
The previous year	...	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	...	Lowest "	41.70 on 21st April 1918	36.89
Record	...	Highest "	69.26 on 26th August 1879	64.44
Do.	...	Ditto "	69.08 on 9th September 1885	64.27
Do.	...	Ditto "	68.80 on 25th August 1906	63.47
Do.	...	Ditto "	68.21 on 26th August 1890	63.40
Do.	...	Lowest "	37.65 on 25th April 1884	32.82
Do.	...	Ditto "	38.18 on 14th-15th April 1885	33.32
Do.	...	Ditto "	39.02 on 21st-22nd April 1897	34.21
Do.	...	Ditto "	39.28 on 6th-7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA, D. M. BANERJI,  
The 30th August 1919. for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 30th August 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on the same date last year.	Remarks.
1919.					
24th August	7 A.M.	22.4	22.4	23.5	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chaudpore ghât. Its reduced level is 22.41.
25th "	7 "	22.4	22.4	23.6	
26th "	7 "	22.5	22.5	23.9	
27th "	7 "	22.7	22.7	24.3	
28th "	7 "	22.5	22.5	24.7	
29th "	7 "	22.3	22.3	24.9	
30th "	7 "	22.2	22.2	25.0	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest "	...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest "	...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	...	Ditto "	...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto "	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto "	...	25.66 on 31st July 1900.
Do.	...	Lowest "	...	1.0 on 8th February 1914.
Do.	...	Ditto "	...	2.42 on 18th March 1908.
Do.	...	Ditto "	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto "	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto "	...	3.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

FARIDPUR, R. K. GHOSE,  
The 1st September 1919. for Subdivisional Officer, P. W. D. Faridpur.



**REPORT OF THE COMMITTEE ON THE HOOGHLY RIVER  
AND ITS HEAD WATERS.**

**GOVERNMENT OF BENGAL.**

**IRRIGATION DEPARTMENT.**

CALCUTTA, THE 9TH SEPTEMBER 1919.

RESOLUTION—No. 4133I.

READ—

- (1) Report of the Committee on the Hooghly River and its head waters.
- (2) Note on the geological aspect of the changes that have taken place in the rivers of Bengal, by Messrs. Hayden and Pascoe.
- (3) Report on the physical and hydraulic characteristics of the rivers of the delta, by Mr. H. G. Reaks.
- (4) Report of the special Sub-Committee regarding the scientific and hydrographical data and practical measures required for gauging the condition of the Nadia rivers and protecting them from deterioration.
- (5) Note on deltaic rivers, by Mr. C. Addams-Williams, C.I.E.

In pursuance of the Bengal Government Resolution No. 373T-I., dated the 9th October 1916, a press *communiqué* was issued on the 17th February 1917, notifying for general information that the Governor in Council has been pleased to appoint a Committee, of which the constitution is given below, to advise Government on the steps which should be taken to carry out systematic observations of the changes in the Nadia rivers, and also, if possible, to improve their condition as navigable channels and as feeders of the Lower Hooghly.

**President.**

The Hon'ble Mr. C. J. Stevenson-Moore, C.V.O., I.C.S., Member, Board of Revenue, Bengal.

**Members.**

- (1) The Vice-Chairman, Port Commissioners, Calcutta, Mr. S. C. Williams.
- (2) The Deputy Conservator, Port of Calcutta, Commander E. A. Constable, R. N. (retired).
- (3) Mr. C. Addams-Williams, C.I.E., Superintending Engineer, Bengal.
- (4) Major F. C. Hirst, I.A., Director of Surveys, Bengal.
- (5) An officer of the Survey of India, nominated by the Government of India.  
Lt. Col. C. H. D. Ryder, C.I.E., D.S.O., R. E., Superintendent, Map Publication.
- (6) An officer of the Geological Survey, to be nominated by the Government of India.  
Mr. H. H. Hayden, C.I.E., Director, Geological Survey of India.
- (7) Mr. J. Campbell, of Messrs. Mackinnon, Mackenzie & Co., representative of the Bengal Chamber of Commerce.
- (8) Mr. James E. Roy, of Messrs. Macneill & Company, representative of the joint steamer companies (I. G. N. & Ry. Co., & R. S. N. Co. Ltd.)
- (9) Mr. A. R. Murray, of Messrs. Thomas Duff & Co. Ltd., representative of the Jute Mills Association.
- (10) The Hon'ble Maharaja Sir Manindra Chandra Nandi, K.C.I.E., of Cossimbazar.
- (11) The Hon'ble Raja Hrisikesh Laha, C.I.E.

The report of the Committee is now before Government.



2. The Governor in Council desires to accord his appreciation of the careful and detailed manner in which the gentlemen forming the Committee have carried out investigations and drawn up their report on the Hooghly river and its headwaters; and to thank them for their labours and for the compilation of a most interesting and valuable record.

.ORDER.—Ordered that a copy of this Resolution be published in the *Calcutta Gazette* and that a copy thereof, with copies of the report and maps, be submitted to the Government of India, and supplied to Departments of Government and to public bodies interested in the question.

By order of the Governor in Council,

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 17, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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### LIBERALITY OF BABU MUKHRAM KANURIA OF CALCUTTA.

No. 2761 Marine, dated Calcutta, the 1st September 1919.

From—THE HON'BLE MR. F. A. A. COWLEY, Secretary to the Govt. of Bengal, Marine Department,

To—BABU MUKHRAM KANURIA, of the firm of Messrs. Luchminarain Bunsidhar.

I AM directed to convey to you the thanks of the Governor in Council for your liberality and public spirit in having made a gift of Rs. 1 lakh, for the construction of a Dharamsala building near Chandpal Ghat, for the accommodation of third class passengers by the Burma steamers.



**REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR  
THE WEEK ENDING 6TH SEPTEMBER 1919.**

DURING the week the rainfall was general and sufficient. The agricultural prospects are favourable. Seventy-two relief works were open, the number of persons employed on them having been 8,923. The total number of persons on gratuitous relief was 14,724, viz., 9,576 persons on cash doles in 125 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The grand total of persons relieved was 23,647. The decrease in the number of persons relieved on cash doles was due to the improvement in the situation. The number of persons relieved on private works was 750. The charitable societies also relieved 634 persons by weekly doles and 900 persons by daily rice doles and cooked food. Two cases of theft of rice and one of grain-looting were reported during the week. Public health is generally good. Outbreak of malaria is reported from certain localities. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 4½ to 5½ seers in the rupee. The rise in the price of rice is reported to be due to heavy rain and difficulty of transport by road. Burma rice is being supplied for sale.

M. G. MCALPIN,  
*Secy. to the Govt. of Bengal.*

DARJEELING, the 11th September 1919.



**RESOLUTION ON THE ADMINISTRATION OF THE  
CHITTAGONG HILL TRACTS.**

**GOVERNMENT OF BENGAL.**

**POLITICAL DEPARTMENT.**

**Political Branch.**

**DARJEELING, THE 12TH SEPTEMBER 1919.**

**RESOLUTION—No. 2476P.D.**

**READ—**

**The Report on the Administration of the Chittagong Hill Tracts.**

During the last two years, the question of the administration of the Chittagong Hill Tracts has engaged the attention of the Government of Bengal. The substitution of territorial for tribal administration, the extension of settled cultivation among the hillmen and the general advance of civilisation have raised new problems and have rendered necessary some development of the administrative system.

A full report on the whole question has been submitted by Mr. F. D. Ascoli, I.C.S., who has deputed to the Hill Tracts in 1918 to make a thorough examination of the existing revenue arrangements and the system of land settlements, and to submit proposals for a reformed system making adequate provision for securing the rights of the cultivators, the headmen and the village community. It is neither possible nor desirable to pass orders immediately on Mr. Ascoli's detailed proposals. They must await further investigation by the new revenue agency which it is clearly necessary to set up. His Excellency the Governor has, however, recently visited Rangamati and has discussed the whole problem with the local officers and the Chiefs, and it is desirable to set forth the general lines of the policy which Government have decided to adopt.

3. The first and most important question is the regulation of plough cultivation which has extended greatly during the past fifty years. In 1868, there was only one small plough lease in existence. At present, according to the returns, which are admittedly imperfect, there are 16,463 plough holdings, covering an area of 42,667 acres and paying a revenue of over Rs. 75,000. These figures show conclusively that the hillman is capable of settled cultivation and that provision must be made for such cultivation as a permanent feature of the administration. It is, however, unsatisfactory to find that one-eighth of the area under plough cultivation is held by the Chiefs and that subletting has been sanctioned in more than one-tenth of the area, while the area actually sublet is very much greater. The policy of Government to settle lands direct with hillmen cultivators has therefore been to a large extent frustrated. Under existing arrangements, the sub-lessees have no rights of any kind in the land; such rights as exist are getting into the hands of the wrong people, and it is necessary to take steps for the protection of the actual cultivators. Unless a proper tenancy system is introduced, the district will find itself saddled with the worst of all agricultural systems, where the land is held by middlemen tenants cultivating through raiyats who are little better than labourers.

4. The provisions regarding transfers and subletting in the existing rules are as follows :—

"All lands held for plough cultivation on lease from Government under whatever rules they have been or may be granted, are subject to the condition that they cannot be sublet or transferred, except on hereditary succession or with the consent of the Commissioner. No partitions can be made without the consent of the Commissioner. For a tenant temporarily to make over his holding to another person in the case of illness, incapacity, minority, absence on a journey or in the like exigency, is not to sublet; but in no such case can the tenant recover from his substitute or trustee a higher rent than he has himself to pay."



This rule, if properly worked, ought to suffice to prevent undesirable subletting and transfers; but in the absence of any clearly defined policy, and in part owing to the multiplicity of authorities empowered to grant leases, it has not been properly worked. It would, in fact, appear that in order to encourage the spread of plough cultivation, leases have been granted under which the lessees have been deliberately allowed to take up more land than they could cultivate themselves, with the intention that they should establish tenants upon it. The Governor in Council is convinced that this policy is mistaken. Plough cultivation is probably extending as rapidly as desirable, and in any case it is better that its extension should be temporarily checked rather than that it should be stimulated by the adoption of unsound methods. It has accordingly been decided that the settlement of lands shall be regulated in future by the following principles:—

- (1) Leases will be sanctioned by the Deputy Commissioner and by no other authority. No lessee shall be permitted to hold more than 25 acres in all, and leases will be granted only to hillmen, provided that non-hillmen of the cultivating classes actually resident in a village at present may be given a lease in that village up to the maximum of 25 acres.
- (2) No subletting shall be allowed, except with the sanction of the Deputy Commissioner which shall only be given to meet cases of temporary incapacity, such as minority, illness or temporary absence.
- (3) The rent of sub-tenants duly authorised by the Deputy Commissioner shall not exceed by more than 50 per cent. the rent paid by their landlords to Government for the area sublet.
- (4) So-called labourers who are remunerated by a share of the produce will be treated as sub-tenants, and, if they are recognised by the Deputy Commissioner, their rents will be regulated by rule (3) above.
- (5) Transfers will be absolutely prohibited, except that the Deputy Commissioner will be authorised to sanction usufructuary mortgages for a period not exceeding seven years, and providing for the extinction of the whole debt, including principal and interest, within that period, subject to the condition that the mortgage will not in any event be extended beyond that period. Unauthorised transfers will in no circumstances be recognised unless the transferee has obtained a prescriptive right by twelve years' possession, the burden of proving which will lie on him.
- (6) In all cases of unauthorised sub-leases or transfers, the Deputy Commissioner will be empowered to resume the land and to resettle it with the transferor or lessor, or with the transferee or sublessee, or with another hillman raiyat of the village, according to circumstances.

5. The question of the application of these rules to pre-existing leases will require further examination. In a few of the older leases, subletting seems to have been recognised or at any rate not definitely forbidden, and the indiscriminate resumption of lands might lead to hardship. At the same time, leases of lands in the Hill Tracts have always been given for the purpose of bringing land under cultivation, and no rents are paid on lands under the present system until they are brought under cultivation. An essential preliminary to the effective introduction of the new rules will be a detailed survey and record-of-rights, which will bring to light the lands held under existing leases, and the question of their treatment can be considered further when the facts are known in fuller detail. If it is decided to allow subletting in such cases, it will be necessary to secure to the sub-tenants full rights of occupancy and protection against rackrenting.

6. It has further been represented that a holding of 25 acres is insufficient for the maintenance of a headman, and that in their case the area should be increased to 50 acres, with permission to sublet at least a portion of the



holding. The Governor in Council will be willing to consider this matter further in connection with the revision of the lists of headmen, a matter which is discussed below. If subletting by headmen is allowed, full provision will have to be made for the protection of their sub-tenants.

7. As already stated, a survey and the preparation of a detailed record-of-rights form an essential preliminary to the introduction of the policy of settling land direct with the actual cultivators, who are to be given rights of occupancy, but no right to transfer or sublet without special sanction and for special reasons. Arrangements for carrying out these operations will be made in due course. It is proposed to entrust them to the ordinary district staff, but an agency for the inspection and co-ordination of the work in different areas will be provided, if necessary. Eventually the terms and conditions under which the land is held will be embodied in the record-of-rights, and it will be possible to dispense with lease forms. Meanwhile leases will continue to be issued in simple *amalnama* forms, providing for an initial rent-free period with subsequent decennial settlements of rent. The question whether there should be an intermediate period before full occupancy rights are granted, in order to ensure land being brought under cultivation, will be examined later. A further matter for investigation during the preparation of the record-of-rights will be the accumulation of arrears of rent and the measures to be taken to put the annual revenue demand on a proper footing.

8. The completion of the record-of-rights will render possible the introduction of certain reforms in the system of assessment and collection of land revenue, but it is unnecessary to discuss these in detail at present. Special measures will be necessary to train the headmen in the new system, and this will be one of the most important duties of the new staff. It has been suggested that the revenue demand might be paid direct to the Deputy Commissioner instead of through the Chiefs as at present, and no legal objections could be raised to such a course which would have certain practical advantages. It has always been held that the property in the land in the Hill Tracts belongs to Government, and that Government recognises in the Chiefs only a delegated power to collect the revenue on its behalf. That delegation could be withdrawn at any time, if developments of the revenue system rendered such a course advisable. In view, however, of the functions which the Chiefs have hitherto carried out in this respect, the Governor in Council is unwilling to deprive them of all connection with the revenue administration in the future. They have given an assurance of loyal co-operation in any reforms which it may be necessary to introduce, and so long as they fulfil their functions to the satisfaction of Government they will be allowed to continue to act as the agents of Government in the collection of the plough rents.

9. In the matter of the *jum* tax, it is not proposed to make any important alterations in the present system. The tax was settled in 1915 for a period of ten years, and it is said that the assessment is on the whole equitable. Mr. Ascoli's proposals for a revision of the incidence of the tax and of the list of exempted persons may therefore stand over till the next settlement. The reforms which he suggests in regard to the accounts and receipt forms and the adoption of kist days should, however, be given effect to at once.

10. Along with the *jum* tax are levied certain unauthorised *abwab* and *nazars*, some by the headmen and some by the Chiefs. It has been proposed that these should be definitely declared illegal and forbidden, but further enquiry is necessary before final orders can be passed. The Commissioner has been asked to submit a report on the subject.

11. No important changes are contemplated in the administration, apart from the revenue system. The Chiefs have asked for enhanced criminal powers, but it is impossible to grant these in the present state of their courts, and until inspection has shown a marked improvement in efficiency. It has, however, been decided to raise the limit of their jurisdiction in the matter of offences against property to cases where the value of the property does not exceed Rs. 50. The present irregular investigation of police cases by



the Chiefs must cease and cognisable crime must be reserved for the regular police force.

12. One question of fundamental importance in connection with the administration of the Hill Tracts is the appointment of village headmen. Under the existing rules, the headmen are appointed by the Superintendent after consultation with the Chiefs and the villagers, and a headman may be dismissed by the Superintendent for misconduct or incompetence. The appointment is not hereditary, but a son when competent may be appointed to succeed his father. This system should, in theory, give the Superintendent ample power to secure the appointment of competent headmen; but, in practice, the results are far from satisfactory. The office of headman in many villages is held by minors and absentees, while in some villages the Chiefs themselves exercise the powers of headman through paid subordinates. These arrangements cannot be allowed to continue. The appointment of competent resident headmen is essential for the working of any system of administration in an area like the Hill Tracts, and the reformed revenue system which it is proposed to introduce will be unworkable without it. Steps must, therefore, be taken to appoint competent resident headmen in all villages where the existing headmen are minors or absentees, or otherwise incapable of performing their duties. The Chiefs will no longer act as headmen, except in the villages in which they themselves reside. They have represented that they should receive compensation for the loss of their income as headmen in other villages, and their claim will be considered on receipt of further particulars, which they have been called upon to furnish. In the case of those minor headmen whose appointment has been recognised by the Superintendent, temporary arrangements may be made for carrying on the duties of headmen, until the minors become capable of taking up their posts. Subject to this exception, the list of headmen must be thoroughly revised on local enquiry, and the District Officer must satisfy himself that only men who are thoroughly competent to perform their duties and enjoy the confidence of the people are allowed to retain their posts. Consultation with the villagers regarding the selection of headmen is essential and should not be allowed to degenerate into a mere formality.

13. In regard to the official administration of the district, it is proposed to substitute a member of the Indian Civil Service as Deputy Commissioner for the existing Superintendent, and to divide the district into three subdivisions corresponding with the Chiefs' circles, each in charge of a Subdivisional Officer, who will be directly responsible to the Deputy Commissioner for the administration of his subdivision. These changes will be introduced about the beginning of the next financial year. The new Deputy Commissioner will in the first place proceed to make himself acquainted with the district and its inhabitants and will arrange to start an experimental survey and record-of-rights in selected typical areas during the cold weather of 1920-21. In the course of these operations, which will be supervised by the Director of Land Records, it should be possible to devise a suitable procedure and rules, and to draw up a programme for the extension of the operations throughout the district.

14. Meanwhile the Commissioner should examine the rules and orders at present in force and report what changes are necessary in order to enable the first steps in administrative reform to be taken by the introduction of the new revenue agency. The Chiefs strongly deprecate the issue of an entirely new set of rules immediately, and urge with some reason that the people will find it easier to grasp the new system if amendments are made and new rules inserted gradually as necessity arises. The Governor in Council fully sympathises with this point of view. It has always been a tradition with the officers responsible for the administration of the Hill Tracts that they should carry the Chiefs and people with them as far as possible, and this tradition must be maintained. Many of the unsatisfactory features which have been discovered in the administration are due rather to failure to apply existing rules than to defects in the rules themselves, and a violent breach with the past is both unnecessary and undesirable. In enforcing the policy now formulated by Government the object of the local officers should be quietly and



tactfully to repair existing defects and to secure the co-operation of the Chiefs and the people in all the measures undertaken for this purpose.

The main objects of that policy are accepted by all. They may be described briefly as the settlement of land direct with hillmen cultivators, and the preparation of a record-of-rights for their protection; and in the administrative sphere, the gradual and tactful enforcement of the principle that in every mauza there shall be a resident headman capable of performing the duties imposed upon him, and that the Chiefs should be given every opportunity of co-operating loyally in the reformed revenue administration. In course of time, extensive changes in the rules will no doubt be found necessary, but it is not desirable to frame hard-and-fast rules until the Deputy Commissioner has had opportunities of studying the problem in detail and of making experiments in regard to the measures required to give effect to the policy of Government. For the present, therefore, no alterations should be made in the existing rules beyond those which are necessary in order to enable the new revenue administration to be set up.

15. Not the least valuable portion of Mr. Ascoli's report is that which deals with the economic condition of the district, and it is from no want of appreciation of the importance of this question that the Governor in Council has refrained from discussing it in this Resolution. The transition from nomadic to settled cultivation is bound to create troubles and difficulties, calling for constant care and watchfulness, and it will be an important part of the duties of the new administrative agency to do all that can be done to assist the people at this juncture. Further investigation of the problem is necessary before any definite action can be taken, but the Governor in Council, as a preliminary measure, has arranged for the establishment of an agricultural farm at Rangamati and the appointment of a district agricultural officer whose duty it will be to make a thorough study of the agricultural conditions of the district, with special reference to the improvement of existing methods of cultivation, whether by *jum* or by plough.

ORDER.—Ordered that this Resolution be published in the *Calcutta Gazette* and that it be forwarded to the Commissioner of the Chittagong Division, for information and necessary action.

Ordered also that copies of the Resolution be forwarded to the Revenue and Appointment Departments, for information and necessary action.

By order of the Governor in Council,

J. H. KERR,

Chief Secy. to the Govt. of Bengal.



## DEPARTMENT OF AGRICULTURE. BENGAL

### Preliminary Forecast of the *Bhadol* crops of Bengal, 1919-20.

[*Note.*—On an average of the five years ending 1917-18 the area under autumn rice in Bengal has represented some 6·5 per cent. of the total area under rice in British India.]

**Character of the season.**—The weather at sowing time and subsequently was generally favourable in West Bengal but in North and East Bengal a prolonged drought in the early part of the season retarded sowings to some extent, and in one or two cases damaged the crops after germination. The latter part of the season has been generally good and the season, as a whole, may be regarded as having been fairly favourable and better than last year. Some damage by flood and insect has been reported from the Presidency Division, Pabna, Malda, Faridpur and Bakarganj.

**Acreage.**—The total area sown this year with the different *bhadol* crops is reported to be 5,991,900 acres against 5,937,200 acres and 5,933,300 acres, respectively, in the corresponding and final forecasts of last year. Of this, the area under autumn rice is estimated at 5,123,300 acres against 5,046,300 acres and 5,066,600 acres in the corresponding and final forecasts of last year.

**Outturn.**—According to the District Officers' estimates, the outturn of the different *bhadol* crops for the Province works out to 84 per cent. of the normal against 81 and 77 per cent. reported, respectively, in the corresponding and final forecasts of last year. Autumn rice, the most important of the *bhadol* crops, shows an outturn of 86 per cent. for the Province against 81 and 77 per cent. reported, respectively, in the corresponding and final forecasts of last year.

ROBERT S. FINLOW,

*Offy. Director of Agriculture, Bengal.*

DACCA,

*The 11th September 1919.*



## APPENDIX.

Preliminary Forecast of the *Bhadol* Crops of Bengal, 1919-20.

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
24- TANJANAN.		Acres.	Acres.	Acres.				
	<i>Bhadol</i> paddy (autumn rice).	75,400	62,900	62,300	75	83		
	Indian-corn (maize) ...	...	100	100	67	67		
	Other <i>bhadol</i> cereals ...	3,800	2,400	1,700	67	50		
	Other <i>bhadol</i> pulses ...	1,300	3,800	3,000	46	75		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	5,600	2,900	2,100	52	75	Middle of April to June. Early.	The decrease in area is due to unfavourable weather at sowing time. Damage to some extent was caused at certain places by heavy rainfall and insects. Hence the outturn is below the normal.
	Other <i>bhadol</i> food-crops.	...	300	300	83	50		
	<i>Bhadol</i> fodder crops other than jowar, bajra, marua and maize.	100	1,300	1,100	75	67		
	<b>Total ...</b>	<b>86,000</b>	<b>72,800</b>	<b>70,600</b>	<b>74</b>	<b>81</b>		
24- NADIA.	<i>Bhadol</i> paddy (autumn rice).	491,100	472,800	457,800	83	100		
	Mandua, marua or ragi	100	...	300	...	67		
	Indian-corn (maize) ...	800	...	100	...	67		
	Other <i>bhadol</i> cereals ...	8,000	5,700	5,300	67	67		
	Other <i>bhadol</i> pulses ...	1,000	5,000	7,800	67	67		
	Indigo ...	8,400	2,100	2,400	58	58	April and May. Normal.	The decrease in area is due to a portion of paddy lands set apart for jute cultivation and to paucity of labour after the febricula epidemic.
	<i>Bhadol</i> fruits and vegetables, including root-crops.	5,800	1,900	3,100	80	67		
	Other <i>bhadol</i> food-crops	1,800	3,000	3,100	88	67		
	<i>Bhadol</i> fodder crops other than jowar, bajra, marua and maize.	(50)	...	...	...	...		The weather has been favourable on the whole. Damage to some extent was done by excessive rainfall.
	<i>Bhadol</i> fibres other than jute.	...	...	300	...	67		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	8,900	15,700	16,700	67	67		
	<b>Total ...</b>	<b>523,900</b>	<b>506,200</b>	<b>494,800</b>	<b>82</b>	<b>97</b>		
24- MURSHIDABAD.	<i>Bhadol</i> paddy (autumn rice).	229,700	177,900	190,400	75	92		
	Jowar ...	100	100	...	100	...		
	Bajra ...	500	303	300	53	52		
	Mandua, marua or ragi	500	500	1,000	75	49		
	Indian-corn (maize) ...	1,000	1,000	1,300	83	63		
	Other <i>bhadol</i> cereals ...	3,600	4,000	2,600	67	75		
	Other <i>bhadol</i> pulses ...	3,000	1,100	1,100	67	67		
	Indigo ...	...	6,100	3,600	75	75		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	3,000	1,700	3,000	56	83	April to June. Normal but a little late in Lalbagh sub-division.	The increase in area principally under ' <i>bhadol</i> paddy,' is due to failure of winter paddy in many places last year. The weather was not favourable at sowing time owing to want of rain but has subsequently been favourable. The damage caused by flood in Jangipur and Lalbagh subdivisions is about 17 per cent. A normal crop was expected but for the damage caused by flood in some parts.
	Other <i>bhadol</i> food-crops	5,000	2,500	2,500	75	75		
	<i>Bhadol</i> fodder crops other than jowar, bajra, marua and maize.	3,800	3,200	3,000	67	75		
	<i>Bhadol</i> fibres other than jute.	400	400	600	67	83		
	Mulberry ...	4,000	3,300	4,800	67	75		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	30,000	4,800	3,900	75	67		
	<b>Total ...</b>	<b>271,300</b>	<b>205,100</b>	<b>216,100</b>	<b>74</b>	<b>90</b>		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
JESSORE.	Bhadol paddy (autumn rice).	Acres. 407,800	Acres. 368,000	Acres. 366,400	75	81	April and May; generally late.	The weather was unfavourable at sowing time in some parts of the district. Subsequently it has been favourable excepting in the Narail subdivision, where the crop has been damaged by flood and insects. No damage is reported from other parts of the district.
	Other bhadol cereals ...	12,200	9,100	9,900	86	75		
	Other bhadol pulses ...	12,200	8,800	8,900	60	75		
	Other bhadol food-crops.	1,800	700	500	80	67		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	12,100	1,000	1,100	60	43		
	Bhadol non-food crops other than fodder and fibres.	446,000	384,400	386,200	74	83		
	Total ...							
KHULNA.	Bhadol paddy (autumn rice).	17,800	20,200	22,800	100	100	April; normal	The increase in area under "bhadol paddy" is due to high price of rice this year.
	Other bhadol cereals ...	800	100	100	86	92	Middle of May; normal.	
	Other bhadol pulses ...	800	400	400	86	83		
	Bhadol fruits and vegetables, including root-crops.	14,800	18,000	12,800	86	76	May; normal.	
	Bhadol non-food crops other than fodder and fibres.	200	100	100	92	100		
	Total ...	22,700	38,800	36,800	94	91		
	BURDWAN.	Bhadol paddy (autumn rice).	140,000	110,700	121,800	83	100	Middle of May to middle of June; normal.
Mandua, marua or ragi		...	(60)	(60)	83	83		
Indian-corn (maize) ...		2,000	1,000	1,300	67	100	Beginning of July.	
Other bhadol cereals ...		1,000	600	600	92	83		
Other bhadol pulses ...		1,200	1,000	1,000	83	83		
Bhadol fruits and vegetables, including root-crops.		2,000	2,400	2,700	76	92		
Other bhadol food-crops		1,700	1,100	1,000	92	83		
Bhadol fodder-crops other than jowar, bajra, marua and maize.		200	200	200	100	83		
Bhadol fibres other than jute.		6,000	4,500	4,200	92	92		
Mulberry ...		100	...	...	...	...		
Bhadol non-food crops other than fodder and fibres.		4,000	2,100	2,000	83	83		
Total ...		160,200	122,800	124,800	83	100		
BURDUJA.	Bhadol paddy (autumn rice).	144,100	122,100	122,100	83	92	July; normal	The weather has been fair.
	Indian corn (maize) ...	1,900	1,800	1,900	75	92		
	Other bhadol cereals ...	1,400	1,200	1,300	67	100		
	Bhadol fruits and vegetables, including root-crops.	10,000	10,000	10,000	67	83		
	Mulberry ...	1,000	(85)	100	67	83		
	Bhadol non-food crops other than fodder and fibres.	2,800	2,800	2,800	100	100		
	Total ...	161,200	140,000	140,100	82	92		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year and whether that date was early normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
BANKURA.	Bhadol paddy (autumn rice).	21,900	8,500	8,000	39	108	Middle of May. Normal.	The weather has been favourable, the rainfall being seasonable and abundant.
	Bajra ... ..	800	700	700	83	108	Middle of June. Normal.	
	Mandua, marua or ragi	1,100	800	900	82	108		
	Indian corn (maize) ...	8,400	3,200	4,000	83	108		
	Other bhadol cereals ...	2,000	1,500	1,800	83	108		
	Other bhadol pulses ...	3,000	1,500	1,800	83	108		
	Bhadol fruits and vegetables, including root-crops.	3,000	1,500	1,500	83	100	June. Normal.	
	Other bhadol food-crops	3,700	4,400	4,000	87	100		
	Bhadol fibres, other than jute.	800	700	1,000	83	108		
	Bhadol non-food crops other than fodder and fibres.	1,300	1,900	1,800	75	100		
	Total ...	43,900	21,600	22,900	81	108		
MIDNAPORE.	Bhadol paddy (autumn rice).	263,400	102,700	110,700				The increase in area is due to favourable weather condition at sowing time. Cultivators were also anxious to compensate themselves for failure of the last winter rice crop. Heavy rainfall in August did damage to some extent. Owing to submergence of the crops in certain areas the outturn is expected to be below the normal. The figures for normal areas have been revised on the basis of settlement records.
	Jowar ... ..	900	...	900				
	Bajra ... ..	1,200	1,400	800				
	Indian corn (maize) ...	8,000	6,000	6,000				
	Indigo ... ..	100	...	...				
	Other bhadol cereals ...	10,100	8,400	10,800				
	Other bhadol pulses ...	29,500	6,200	8,400				
	Bhadol fruits and vegetables, including root-crops.	26,000	4,400	7,800	88	90	April and May. Normal.	
	Other bhadol food-crops.	7,400	5,800	5,600				
	Bhadol fodder crops other than jowar, bajra, marua and maize.	800	600	900				
	Bhadol fibres other than jute.	1,100	1,200	1,600				
	Mulberry ... ..	10,200	100	100				
HOOGHLY.	Bhadol non-food crops other than fodder and fibres.	400	4,200	2,800				The decrease in area under "bhadol paddy," "bhadol fruits and vegetables etc." and "other bhadol food crops" was due to want of rain at sowing time. The weather was not favourable at sowing time but subsequently it has been favourable. The outturn is expected to fall below the normal owing to want of rain at sowing time. There has been a slight damage to Sadar subdivision on account of drought.
	Total ...	380,500	137,700	234,400	86	90		
	Bhadol paddy (autumn rice).	45,300	29,800	37,100	76	90		
	Indian corn (maize) ...	200	100	100	100	80		
	Other bhadol cereals ...	600	400	400	48	100		
	Other bhadol pulses ...	600	100	200	66	100		
	Bhadol fruits and vegetables, including root-crops.	3,100	3,900	2,600	65	99		
	Other bhadol food-crops	1,700	800	900	73	100		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	100	100	100	80	100		
	Bhadol fibres other than jute.	100	100	100	84	100		
	Mulberry ... ..	100	...	...	...	...		
	Bhadol non-food crops other than fodder and fibres.	600	...	...	...	...		
	Total ...	51,900	33,000	31,700	78	91	In Arambagh 1st week of July; lat- Elsewhere from the middle of May to June. Normal.	



District	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal, or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
HOWRAH.	Bhadol paddy (autumn rice).	18,500	7,700	9,800	80	100	Middle of May. Normal.	The increase in area under "bhadol paddy" was due to timely rainfall as well as to high price of paddy. The weather has been favourable.
	Indian-corn (maize) ...	500	100	100	67	83		
	Other bhadol cereals ...	1,300	900	1,000	80	75		
	Other bhadol pulses ...							
	Bhadol fruits and vegetables, including root-crops.	17,800	8,500	6,000	67	69		
	Other bhadol food-crops	2,700	1,400	1,300	85	84		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	1,500	400	500	80	67		
	Total ...	41,500	18,500	18,300	87	85		
RAJSHAH.	Bhadol paddy (autumn rice.)	300,000	288,000	297,400	81	90	Middle of August to middle of September. Normal.	The increase in area under "bhadol paddy" is due to more extensive cultivation to get a rice crop early after last year's loss.  Owing to insufficient rain the weather was not favourable at sowing time but it has subsequently been favourable.  The outturn is below the normal owing to want of rain at sowing time.
	Jowar ...	100	300	200	47	60		
	Mandua, marua or ragi	200	200	200	80	80		
	Indian-corn (maize) ...	1,100	1,300	1,300	61	86		
	Other bhadol cereals ...	5,800	6,000	6,000	80	65		
	Other bhadol pulses ...	2,000	1,900	1,900	80	80		
	Bhadol fruits and vegetables, including root crops.	2,300	3,500	2,500	48	62		
	Other bhadol food-crops.	1,800	2,000	2,000	40	60		
	Bhadol fodder-crops other than jowar, bajra, marua and maize.	4,500	4,800	4,800	40	80		
	Bhadol fibres other than jute.	500	400	400	67	67		
	Mulberry ...	1,000	700	700	67	62		
	Bhadol non-food crops other than fodder and fibres.	600	900	800	60	67		
	Total ...	316,500	307,900	320,300	81	88		
DINAJPUR.	Bhadol paddy (autumn rice.)	180,700	152,700	119,600	71	74	Last week of April. Normal.	The decrease in area under "bhadol paddy" and "bhadol fodder crops" was due to want of sufficient rain at sowing time.  The weather was not favourable at sowing time but subsequent rainfall improved the condition.
	Jowar ...	1,200	1,700	1,900	88	77		
	Bajra ...	100	300	300	73	69		
	Mandua, marua or ragi		200	400	88	91		
	Indian-corn (maize) ...	1,000	900	902	71	64		
	Other bhadol cereals ...	1,600	400	600	64	48		
	Other bhadol pulses ...	900	400	700	89	79		
	Bhadol fruits and vegetables, including root crops.	1,700	1,300	1,300	59	66		
	Other bhadol food-crops	100	200	1,300	60	73		
	Bhadol fodder-crops other than jowar, bajra, marua and maize.		200	400	64	73		
	Bhadol non-food crops other than fodder and fibres.	300						
	Total ...	187,800	159,800	127,500	71	74		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield-per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.	
			Last year.	This year.	Last year.	This year.			
JALPAIGURI.	Bhadol paddy (autumn rice).	Acres. 198,000	Acres. 179,400	Acres. 106,900	80	95	April. Normal. ...	The decrease in area was due to want of timely rainfall and to diseases prevailing among cultivators in the Duars.	
	Mandua, marna or ragi	800	900	900	66	100			
	Indian corn (maize) ...	4,000	3,700	3,600	90	100			
	Other bhadol cereals ...	3,100	1,000	900	70	75	April to August in the Duars.	The weather has not been favourable. The effects of weather on the cultivation and growth of the crops have been fair.	
	Other bhadol pulses ...	3,800	1,700	2,000	70	90			
	Bhadol fruits and vegetables, including root-crops.	18,800	17,100	17,500	70	75			
	Other bhadol food crops	9,800	8,800	8,600	70	90	April. Normal.		
	Bhadol fodder crops other than jowar, bajra, marna and maize.	8,000	8,000	8,000	75	100			
	Bhadol fibres other than jute.	100	100	100	70	70			
	Bhadol non-food crops other than fodder and fibres.	2,000	2,000	2,000	75	100			
	Total ...	286,600	204,000	141,700	79	93			
	DARJEELING.	Bhadol paddy (autumn rice).	7,300	2,600	3,700	63	83	Middle of April to end of June. Normal.	There was want of rain at sowing time. The weather has been fair. Some damage was caused to the crops by hail in some places and also by want of rain in April and May.
Mandua, marna or ragi		8,300	3,600	3,600	72	83			
Indian corn (maize) ...		40,300	48,700	48,700	93	100			
Other bhadol cereals ...		3,900	700	700	92	67			
Other bhadol pulses ...		1,700	1,600	1,600	100	100			
Bhadol fruits and vegetables, including root-crops.		400	300	100	100	100			
Tea. ...		53,000	54,700	54,700	100	100			
Other bhadol food-crops		8,300	4,400	4,400	93	100			
Bhadol fodder-crops, other than jowar, bajra, marna and maize.		...	100	100	100	67			
Other bhadol non-food crops other than fodder and fibres.		2,100	1,800	1,100	92	67			
Total ...		118,500	119,300	118,700	95	102			
RANGPOO.		Bhadol paddy (autumn rice).	383,600	310,100	296,900	80	83	March. Normal. ...	The decrease in area is due to small area sown this year in the Niphamari sub-division. The acreage has been ascertained this year from the schedules submitted by panchayats. The weather was not favourable at sowing time and the growth of the plants was retarded by want of rain in the latter part of April and May. Later on, the weather has been favourable. Except from want of rain, there has been no appreciable damage.
	Jowar ...	300	300	300	100	100	March. Normal.		
	Indian corn (maize) ...	100	100	100	100	75			
	Other bhadol cereals ...	30,000	4,900	5,200	80	66	April. Normal.		
	Other bhadol pulses ...	10,000	1,400	2,600	80	80			
	Bhadol fruits and vegetables, including root-crops.	18,000	900	600	90	55	August. Normal.		
	Other bhadol food-crops	20,000	20,000	20,000	100	90			
	Bhadol non-food crops other than fodder and fibres.	20,000	20,000	20,000	100	90			
Total ...	580,900	337,700	336,700	90	83				



District.	Names of crops	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers
			Last year.	This year.	Last year.	This year.		
BOGRA.	Bhadol paddy (autumn rice.)	140,000	111,700	135,000	80	87		
	Jowar ... ..	.....	100	100	80	90		
	Bajra ... ..	.....	(10)	(10)	.....	75		
	Mandua, marua or ragi	.....	(30)	(10)	87	100		
	Indian corn (maize) ...	.....	3,000	3,000	75	75		
	Other bhadol cereals ...	3,000	1,800	1,800	35	30		
	Other bhadol pulses ...	.....	400	300	35	48		
	Bhadol fruits and vegetables, including root-crops.	3,000	300	300	67	80	March to June. Late in the western part and normal elsewhere.	The increase in area was due to the failure of crops last year owing to flood and drought. The weather was not favourable at sowing time but subsequently it became favourable and the outturn expected is fair.
	Other bhadol food-crops	3,000	400	400	35	80		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	.....	100	100	45	65		
PABNA.	Mulberry ... ..	100	(8)	(5)	45	90		
	Bhadol non-food crops other than fodder and fibres.	200	.....	.....	.....	.....		
	Total ...	146,800	117,400	139,700	60	86		
	Bhadol paddy (autumn rice.)	140,000	180,000	179,500	60	79		
	Indian corn (maize) ...	...	...	100	...	63		
	Other bhadol cereals ...	8,000	6,500	6,100	66	79		
	Other bhadol pulses ...	...	...	100	...	63	Latter part of April. Late.	The decrease in area was due to unfavourable weather condition at sowing time. Want of rain greatly damaged the crops but the rainfall in June improved the growth of the crops. About 71 per cent. of the crops was damaged by sudden flood in July.
	Bhadol fruits and vegetables including root-crops.	...	...	100	...	63		
	Other bhadol food-crops	30,000	30,000	14,900	65	71		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	3,500	3,500	700	66	71		
MALDA.	Bhadol fibres other than jute.	...	...	600	...	63		
	Total ...	181,600	220,000	195,000	61	78		
	Bhadol paddy (autumn rice.)	278,600	354,000	240,200	100	92		
	Jowar ... ..	1,800	1,300	1,300	100	99	By the end of April. Normal.	The slight decrease in area under "Bhadol paddy" is due to increased cultivation of some other bhadol crops.
	Bajra ... ..	1,400	1,200	1,200	80	83		
	Mandua ... ..	1,600	1,300	1,300	50	67		
	Indian corn (maize) ...	25,700	16,000	16,000	75	80	Middle of June Late.	After sowing the growth of the crops was retarded for want of rain but from the middle of July up till now the condition has been favourable. Damage to some extent has been done to bhadol paddy and maize by flood. The decrease in outturn is due to retarded growth.
	Other bhadol cereals ...	3,200	3,300	3,800	80	80		
	Other bhadol pulses ...	100	100	100	80	83		
	Bhadol fruits and vegetables, including root-crops.	9,700	6,500	6,500	80	67		
Dacca.	Mulberry ... ..	6,000	13,800	13,500	100	99		
	Other bhadol food-crops	20,000	16,400	12,500	80	83	Middle of May. Normal.	
	Bhadol fodder crops other than jowar, bajra, marua and maize.	2,000	1,100	1,000	60	88		
	Bhadol fibres other than jute.	7,000	1,500	1,800	60	68		
	Bhadol non-food crops other than fodder and fibres.	2,400	3,000	3,000	75	67		
	Total ...	363,500	325,400	321,500	96	87		
	Bhadol paddy (autumn rice.)	288,750	367,900	267,400	87	84		
	Bhadol fruits and vegetables, including root-crops.	5,000	4,000	4,100	75	76	June to August. Normal.	Want of sufficient timely rain injuriously affected the cultivation and growth of the crops. The outturn is below the normal owing to drought and scanty rainfall.
	Other bhadol food-crops	38,500	12,500	12,500	99	99		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	3,700	1,800	1,800	90	100		
Dacca.	Total ...	275,900	292,300	292,800	88	85		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
MYNBERG.	Bhadol paddy (autumn rice).	Acres. 390,600	Acres. 466,600	Acres. 466,500	60	60	Middle of April. Normal.	The weather was generally favourable at sowing time but subsequently it was unfavourable for want of timely rainfall. About 4-anna crops have been damaged by drought. Hence the outturn is below the normal.
	Bhadol fruits and vegetables, including root-crops.	5,600	5,500	5,500	45	55		
	Other bhadol food-crops	43,000	43,000	43,000	60	66		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	64,000	64,000	64,000	35	50		
	Total ...	503,100	579,000	579,000	57	75		
PARIPUR.	Bhadol paddy (autumn rice).	223,500	237,200	230,700	90	76	End of March.	The weather was favourable at sowing time but the crops suffered in places from drought. The effects of weather were favourable but owing to early flood the crops were damaged to some extent. Hence the outturn is below the normal.
	Bhadol fruits and vegetables, including fodder-crops.	35,300	33,200	33,000	74	70		
	Other bhadol food-crops	500	500	500	78	79		
	Total ...	259,300	269,900	254,200	69	77		
BAKARGANJ.	Bhadol paddy (autumn rice).	136,000	250,000	240,000	75	83	April and May. A little late.	The increase in area was due to high prices of food-stuffs.
	Other bhadol pulses	1,000	600	600	78	67		
	Bhadol fruits and vegetables, including root-crops.	140,000	140,000	140,000	73	58	February to May. Normal.	The weather was not favourable at sowing time owing to insufficient rainfall and to heavy showers afterwards. The flood at the beginning of August and insect pests have done some damage to the crops. Hence the outturn is below the normal.
	Bhadol non-food crops other than fodder and fibres.	1,400	1,800	1,500	75	75		
	Total ...	278,400	292,000	442,000	75	76		
CHITTAGONG.	Bhadol paddy (autumn rice).	303,000	304,000	194,500	95	100	May to June. Normal.	The decrease in area was due to deficient rainfall in May. The weather was dry at the time of sowing but subsequent rain was favourable. A normal outturn is expected.
	Indian-corn (maize) ...	300	300	300	100	100		
	Other bhadol pulses ...	800	300	300	95	92		
	Bhadol fruits and vegetables, including root-crops.	2,400	2,500	2,600	100	92		
	Other bhadol food-crops	1,400	1,600	1,600	99	100		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	5,800	4,600	4,000	100	100		
	Bhadol fibres other than jute.	300	300	300	100	92		
	Bhadol non-food crops other than fodder and fibres.	100	100	100	100	100		
	Total ...	318,900	317,900	309,500	95	99		
	Ta ...	5,000	5,000	5,400	91	83		
TIPPERA.	Bhadol paddy (autumn rice).	330,000	314,000	303,100	90	67	Middle of April. Normal.	The decrease in area is due to prolonged drought. The weather was not favourable at sowing time for want of sufficient rain. It was favourable at the latter part of the season.
	Other bhadol cereals ...	1,100	600	500	76	75		
	Other bhadol pulses ...	1,000	1,100	1,000	60	75		
	Bhadol fruits and vegetables, including root-crops.	7,800	5,100	4,400	60	33		
	Other bhadol food crops	1,000	700	700	60	75		
	Bhadol fodder-crops other than jowar, bajra, marua and maize.	9,000	9,000	8,800	60	75		
	Bhadol non-food crops other than fodder and fibres.	7,000	5,000	5,000	75	75		
	Total ...	348,400	326,500	321,000	68	67		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
NOAHMALL.	Bhadol paddy (autumn rice.)	204,000	212,000	212,000	70	80	March to April. Normal.	The increase in outturn is due to favourable weather and rainfall. No damage was done to the crops.
	Bhadol fruits and vegetables, including root-crops.	1,000	1,000	1,000	90	85		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	2,000	2,000	2,000	90	90		
	Other bhadol non-food crops other than fodder and fibres.	(21)	.....	.....	.....	.....		
	Total ...	207,000	215,000	215,000	70	80		
CHITTAGONG HILL TRACTS.	Bhadol paddy (autumn rice.)	180,000	186,000	186,000	85	73	By the middle of May. Late.	Some cultivators apprehended scarcity in the beginning of the season and so more area was brought under cultivation. There has been insufficient rainfall after the sowing season. The weather is favourable at present.
	Indian-corn (maize) ...	2,100	1,800	1,400	46	47		
	Other bhadol pulses ...	4,000	2,000	4,000	80	63		
	Other bhadol food-crops.	7,000	6,800	7,300	46	52		
	Total ...	201,100	197,300	190,400	85	73		
TOTAL BEGAL.	Bhadol paddy (autumn rice.)	5,342,800†	5,080,600	5,128,800	77	86		
	Jowar ... ..	4,900†	2,790	4,200	77	84		
	Bajra ... ..	4,000†	2,900	2,900	83	89		
	Mandua, marua or ragi.	6,100†	6,700†	8,100	76	78		
	Indian-corn (maize) ...	102,100†	88,100†	86,000	85	88		
	Other bhadol cereals ...	186,100†	77,800†	84,900	70	76		
	Other bhadol pulses ...							
	Indigo ... ..	1,100†	10,100	11,700	71	70		
	Bhadol fruits and vegetables including root-crops.	214,800†	284,700†	302,300	78	68		
	Other bhadol food-crops	212,700†	164,300	149,800	71	70		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	107,800†	108,200	101,300	47	61		
	Bhadol fibres other than jute.	16,800†	9,300	11,000	88	84		
	Mulberry ... ..	22,600†	17,200	18,500	85	87		
	Tea ... ..	57,000†	50,700*	60,100*	100	106		
	Bhadol non-food crops other than fodder and fibres.	118,300†	67,900	64,300	82	77		
	Total ...	5,942,800†	5,833,800	5,991,800	77	84		

\* Exclusive of figures for Jalpaiguri and the Chittagong Hill Tracts.  
† Revising.



# MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR AUGUST 1919.

**I. Character of the Season.**—During the month the rainfall was above the average in 14 districts and elsewhere below normal. The fall was in marked defect in the districts of Jalpaiguri, Darjeeling, Rangpur, Mymensingh and in the Cooch Behar State. The usual rainfall statement is appended.

**II. Progress of the Agricultural Operations.**—The rainfall in the last week facilitated the transplanting of winter paddy and steeping of jute in North and East Bengal where the operations were being hampered partly owing to want of sufficient rainfall and partly to lowness of river flood. A good deal of transplanting, however, remains to be done in Mymensingh where with low river and short rainfall the cultivators found it difficult to reap the jute in time to transplant rice. Transplanting was almost completed in West Bengal where prospects have been reported to be hopeful. Weeding of winter rice commenced. Autumn paddy was being reaped and a satisfactory outturn was reported.

**III. State of Standing Crops.**—The condition of winter rice, sugarcane and other standing crops was satisfactory on the whole, but more rain was needed in Mymensingh to facilitate transplanting of winter rice.

**IV. Prospects and Probable Outturn.**—Autumn paddy yielded a satisfactory outturn. The present outlook of winter paddy is reported to be generally promising in West Bengal, but lack of rainfall is affecting some districts in East and North Bengal.

**V. Damage to Standing Crops.**—Some damage to jute by insect pests continued to be reported from places in West Bengal.

**VI. Condition of Agricultural Stock.**—The condition of live-stock was reported as fair. Cattle-disease was reported from places in the districts of Murshidabad, Burdwan, Midnapore, Rangpur and Cooch Behar State.

**VII. Failure of Pasturage and Fodder.**—The supply of fodder was sufficient throughout the province except in the low-lying tracts of Faridpur, Bogra and Pabna.

**VIII. Price of Food-grains.**—During the second fortnight of the month under review the price of common rice for the province rose in 18 districts and fell in 6, and remained stationary in the rest. It varied from 3 seers and 12 chitaks per rupee in Dacca, Faridpur and Hooghly to 7 seers in the Chittagong Hill Tracts.

**IX. Condition of Agricultural People.**—Distress continued to prevail in the Brahmanbaria subdivision of Tippera. Relief measures continued.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

Dacca, the 13th September 1919.

Statement showing the normal and actual rainfall in each district during August 1919.

Division	District.	Normal district rainfall for the month of August.	Actual district rainfall for the month of August 1919.	Variation from the normal.	Division.	District.	Normal district rainfall for the month of August.	Actual district rainfall for the month of August 1919.	Variation from the normal.
		Inches.	Inches.	Inches.			Inches.	Inches.	Inches.
Presidency	24-Paraganas	19.21	19.87	+7.66	Rajshahi—contd.	Rangpur	19.21	5.23	-7.98
	Calcutta	12.18	23.21	+11.03		Bogra	12.02	8.09	-3.93
	Nadia	10.52	7.53	-2.99		Pabna	12.67	1.72	-1.72
	Murshidabad	11.00	8.86	-2.14		Maida	11.11	15.96	+4.85
	Jessore	10.76	10.56	-0.20	Dacca	Dacca	12.86	9.91	-2.95
Burdwan	Khulna	12.88	16.41	+3.53		Mymensingh	16.68	10.86	-5.82
	Burdwan	11.12	10.11	-1.01		Faridpur	13.08	14.96	+1.88
	Dhobani	11.76	14.40	+2.64		Bakerganj	10.25	20.14	+9.89
	Bankura	11.10	14.85	+3.75	Chittagong	Chittagong	22.79	26.71	+3.92
	Midnapore	11.00	16.97	+5.97		Tippera	14.01	12.71	-1.30
	Hooghly	11.40	12.56	+1.16		Noskhali	22.49	22.16	-0.33
	Howrah	11.17	26.17	+15.00		Chittagong Hill Tracts	17.47	18.46	+0.99
Rajshahi	Rajshahi	10.42	10.90	+0.48	Cooch Behar	Cooch Behar	21.26	6.61	-14.65
	Dumra	14.81	8.05	-6.76					
	Jalpaiguri	28.92	11.01	-17.91					
	Darjeeling	26.20	17.09	-9.11					



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 11th September 1919.

**Summary.**—During the week the rainfall was generally heavy in the Chittagong Division and in Dinajpur, Jalpaiguri and Darjeeling. Elsewhere the fall was generally light to moderate. More rain is needed in places of Rajshahi, Rangpur and Tippera for the growth of winter paddy and for the steeping of jute. Transplanting of winter paddy is approaching completion; weeding continues. Cutting, steeping and washing of jute are proceeding, but the progress is slow in many places owing to lack of steeping water. Harvesting of autumn rice is still going on in the western districts. Damage to jute by insects continues to be reported from places in the 24-Parganas. The condition and prospects of standing crops are generally satisfactory. The average price of common rice for the province has risen by about 1·35 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	0·51	4½	4½	Transplanting of <i>aman</i> paddy and harvesting of <i>aus</i> paddy continue. Condition and prospects of jute are good. Effects of weather on the crop are good. Damage by insects is reported from some places in Barasat subdivision. Harvesting of jute continues. Fodder and water are sufficient.
	Diamond Harbour.	1·20	4½	(n)	
	Barrackpore	2·27	4½	4	
	Barasat ...	0·80	4	4	
	Basirhat ...	4·44	4	(n)	
2	NADIA ...	6·11	4¾	4¾	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy is nearly finished. Lands are being prepared for <i>rabi</i> crops. Effects of weather are favourable to jute, no damage is reported. Cattle-disease is reported from Chakdah and Karimpur thanas.
	Kushtia ...	0·92	4	4	
	Meherpur ...	1·78	6½	6½	
	Chuadanga ...	2·24	4½	4½	
	Ranaghat ...	2·56	4	4	
3	MURSHIDABAD	2·23	4½ to 4¾	4½	Weather cloudy with occasional rain. Prospects of standing crops are good. Harvesting of <i>aus</i> paddy continues. Transplanting of <i>aman</i> paddy has been almost finished. Condition and prospects of jute are good. Effects of weather are favourable to its growth, there has been no damage. Harvesting and steeping continue. Fodder is sufficient. No large export. Over one thousand maunds of Burma rice have been imported into Lalbagh subdivision.
	Lalbagh ...	2·48	5½	5	
	Jangipur ...	6·25	4½	4½	
	Kandi ...	2·41	4½	4½	
4	JESORE ...	0·41	4	4	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy are nearly finished. Standing crops are doing well. Condition and prospects of jute are fair. Steeping and washing continue. Fodder is sufficient. Burma rice is being imported into this district.
	Jhenidah ...	3·10	4½	5	
	Magura ...	4·20	4	5	
	Narail ...	2·93	4	4½	
	Bangaon ...	1·15	4½	4½	

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
5	KHULNA ...	3.53	4	3 $\frac{1}{2}$	Transplantation of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cutting and steeping are going on. Water and fodder sufficient. Cattle-disease is reported from Debbhatia police-station.
	Satkhira ...	4.46	4	5	
	Bagerhat ...	3.53	4 $\frac{1}{2}$	3 $\frac{1}{2}$	
6	BURDWAN ...	1.33	4 $\frac{1}{2}$	4	Weather cloudy. Prospects of <i>aman</i> paddy, sugarcane and other standing crops are good. Weeding of <i>aman</i> paddy and harvesting of jute and <i>aus</i> paddy continue. Prices continue abnormally high.
	Asansol ...	4.26	4 $\frac{1}{2}$	4 $\frac{1}{2}$	
	Katwa ...	1.20	4 $\frac{1}{2}$	4 $\frac{1}{2}$	
	Kalna ...	1.82	4 $\frac{1}{2}$	3 $\frac{1}{2}$	
7	BIRBHUM ...	5.81	4 $\frac{1}{2}$	4 $\frac{1}{2}$	Weeding of winter paddy continues. Prospects of standing crops are favourable. Fodder and water are sufficient.
	Rampurhat ...	6.75	5	5	
8	BANKURA ...	6.99	4 $\frac{1}{2}$	4 $\frac{1}{2}$	Prospects of standing crops are good. Export of rice and paddy have increased and import has decreased.
	Vishnupur ...	1.79	5	5 $\frac{1}{2}$	
9	MIDNAPORE	2.15	{ 4 $\frac{1}{2}$ <sup>*</sup> 5 $\frac{1}{2}$ †	{ 5 <sup>*</sup> 5 $\frac{1}{2}$ †	Condition and prospects of jute, <i>bhadoi til</i> and autumn rice are fair. Harvesting of autumn rice is progressing. The transplanting of winter paddy is finished. Cattle disease is reported from Contai, and Bahiri thanas.
	Ghatal ...	0.93	{ 5 <sup>*</sup> 5 $\frac{1}{2}$ †	{ 4 $\frac{1}{2}$ <sup>*</sup> 5†	
	Tamluk ...	1.33	{ 4 $\frac{1}{2}$ <sup>*</sup> 5†	{ 4 $\frac{1}{2}$ <sup>*</sup> 5†	
	Contai ...	1.96	{ 6 <sup>*</sup> 6 $\frac{1}{2}$ †	{ 6 <sup>*</sup> 6 $\frac{1}{2}$ †	
10	HOOGHLY ...	3.52	4 $\frac{1}{2}$	4	Effects of weather on the growth of the crops are favourable. Price of rice fell slightly in Sadar subdivision. Condition and prospects of jute are fair. Damage by insects is reported from the Sadar subdivision. Harvesting and steeping are going on. Fodder is sufficient.
	Serampore ...	1.21	4 $\frac{1}{2}$	4 $\frac{1}{2}$	
	Arambagh ...	2.45	5 $\frac{1}{2}$	5 $\frac{1}{2}$	
11	HOWRAH ...	1.65	4 $\frac{1}{2}$	4	Weather seasonable. Sugarcane is doing well. Transplantation of <i>aman</i> paddy is over. Condition of jute is good. Harvesting of jute continues in low lands. Fodder is sufficient.
	Ulubaria ...	0.40	4	3 $\frac{1}{2}$	
12	RAJSHAHI (RAMPUR-BOALIA).	5.00	4 $\frac{1}{2}$	4 $\frac{1}{2}$	The prospects of standing crops are favourable. Harvesting of jute and <i>aus</i> paddy and transplanting of winter paddy continue; more rain is wanted in the Naogaon subdivision. Fodder is sufficient.
	Naogaon ...	2.03	3 $\frac{1}{2}$	3 $\frac{1}{2}$	
	Nator ...	3.23	4	4 $\frac{1}{2}$	

\*Common rice.

†Coarse rice.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ...	7.34	3½	3½	The recent rainfall has been very favourable to the standing crops. Rice market is rising at Sadar and Balurghat.
	Thakurgaon	7.97	4½	3½	
	Balurghat ...	5.54	4	4½	
14	JALPAIGURI	8.73	4	3½	Prospects of standing crops are fair. Steeping and washing of jute continue. Fodder and water are sufficient.
	Alipur ...	12.21	3½	4	
15	DARJEELING	11.72	4½	5½	Harvesting of potatoes, cardamom and maize continues. <i>Marua</i> is progressing. Condition and prospects of jute are fair. Effects of weather on the growth of jute are fair. No damage. Transplanting of autumn paddy and harvesting and steeping of jute are going on. The supply of fodder and water is sufficient. Stock of food-grains is insufficient.
	Kurseong ...	14.08	5	5½	
	Siliguri ...	9.74	3	4	
	Kalimpong ...	5.88	5	5½	
16	RANGPUR ...	2.19	3½	4½	Weather seasonable. Harvesting of jute and transplantation of winter paddy are going on but more rain is urgently wanted for winter rice and for steeping of jute. Condition of jute is fairly good. Weather is not favourable for winter rice. Price of rice is rising. Export is going on. Cattle-disease is subsiding. Fodder and water are sufficient.
	Nilphamari	9.00	3½	4	
	Kurigram ...	5.31	3½	4	
	Gaibandha ...	2.48	4½	4½	
17	BOGRA ...	2.15	3½	4½	Transplanting of winter paddy and harvesting of jute and <i>aus</i> paddy continue. Steeping and washing of jute are partially retarded for low flood. Condition of broadcast winter rice is unfavourable.
18	PABNA ...	2.51	4	4½	The effects of recent rainfall are fair, the water has risen considerably. The remaining jute will shortly be reaped. Prospect of <i>aman</i> are better owing to flood. No large export of rice from Sirajganj or Pabna.
	Sirajganj ..	7.62	3½	(n)	

(n) Not reported.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN AKHIA, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
19	MALDA ..	5.98	4	4	Weather seasonable. Transplanting of winter rice continues. Prospects of jute are fair. No damage to crop is reported. Harvesting continues. Fodder and water are sufficient. Cattle-disease is reported from Bholahat and Shibganj thanas.
20	COOCH BEHAR	9.06	7½	7½	Weather rainy and cloudy. Transplantation of <i>haimanti</i> paddy seedlings is going on briskly. Harvesting of <i>bitri</i> paddy is nearly finished. Prospects and condition of standing crops are favourable. Fodder is sufficient.
21	DACCA ...	4.39	4	3½	Weather seasonable. The heavy down-pour of rain during the week enabled the last of the plots to be transplanted with <i>roa</i> paddy which is progressing briskly. Standing crops are thriving under favourable weather condition. Prospects of <i>aman</i> paddy are good and a fair outturn is expected. No cattle-disease is reported. Fodder is sufficient.
	Manikganj...	4.94	4	3½	
	Narayanganj	3.99	4	3½	
	Munshiganj*	3.23	4	3½	
22	MYMENSINGH	0.67	3½	3½	Weather seasonable. More rain is wanted. Harvesting of <i>aus</i> paddy is nearly finished. Harvesting and steeping of jute are going on. Prospects of standing crops are fair. Fodder is sufficient. Cattle-disease is reported from places.
	Jamalpur ...	2.13	3½	3½	
	Tangail ...	6.55	3½	(n)	
	Netrakona ...	5.79	4	3½	
	Kishorganj...	6.12	3½	3½	
23	FARIDPUR ...	2.69	3½	3½	Weather is favourable to the standing crops. Prospects of <i>aman</i> paddy are promising. Harvesting of jute still continues. Fodder is available. Stock of rice is insufficient in Gopalganj.
	Goalundo ...	3.21	4½	4½	
	Madaripur...	4.16	4	3½	
	Gopalganj†...	5.94	3½	3½	
24	BAKARGANJ (BARISAL).	3.98	{ 3½ 5½ 6½ }	3½	Prospects of jute are fair; weather is favourable. No damage done to the crop. Harvesting is almost finished. Prospects of other crops are fair.
	Pirojpur ...	4.17	3½	3½	
	Patuakhali...	5.56	{ 4 4½†	3½ 4½†	
	Dakshin Shalazpur (Bhola).	5.68	{ 3½ 4½†	3½ 4½†	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haradaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ Aus rice.

§ Rangoon rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERs. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
25	CHITTAGONG	11.96	4½	4½	Prospects of standing crops are good. Transplanting of <i>aman</i> paddy is going on. Harvesting of <i>aus</i> paddy is still in progress. <i>Panya</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
	Cox's Bazar	11.17	4½	4½	
26	TIPPERA (COMILLA).	7.97	4½	4½	The prospects of <i>aus</i> paddy are fair and those of <i>aman</i> paddy are hopeful; more rain is wanted in the Brahmanbaria subdivision. Prospects of jute are good. The price of rice still rules high. Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy are going on.
	Brahmanbaria.	4.12	4½	4	
	Chandpur ...	3.66	5	4½	
27	NOAKHALI ...	9.07	3½	3½	Weather seasonable. Prospects of standing crops are good. Transplantation of <i>aman</i> paddy and harvesting of jute continue. Fodder is sufficient.
	Feni ...	12.52	4½	{ 3½ 4½ }	
28	CHITTAGONG HILL TRACTS.	8.98	{ 4½ 6½ }	{ 4½ 7½ }	Sowing of paddy on highland continues. Reaping of <i>jhum</i> paddy has commenced. Fodder is sufficient.

\* *Aus* rice.

† Local rice.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

CALCUTTA, the 16th September 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of August 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	3 4 0	4 2 0	3 0 0	3 0 0	3 0 0	3 10 0	...
Chetia Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 13 6	4 0 0	2 8 0	2 4 0	3 14 0	3 14 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 8 0	4 0 0	2 4 0	2 8 0	3 0 0	3 12 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	7 4 0	6 8 0	2 12 0	3 2 0	3 8 0	4 2 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 8 0	4 8 0	2 4 0	2 12 0	3 6 0	3 4 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 4 0	5 0 0	1 12 0	2 14 0	3 8 0	3 6 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 10 0	4 0 0	2 12 0	2 8 0	3 2 0	3 4 0	...
Chetia Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 13 6	4 0 0	3 4 0	2 2 0	3 8 0	3 10 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 4 0	3 14 0	1 14 0	2 0 0	2 14 0	3 4 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	7 0 0	6 4 0	2 8 0	2 10 0	3 4 0	3 14 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 3 0	4 6 0	2 0 0	2 8 0	3 2 0	3 0 0	3 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	4 12 0	4 8 0	1 8 0	2 8 0	2 12 0	2 4 0	3 0 0

(c) No sale



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of August 1918.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1916.	Corresponding return of 1917.	Corresponding return of 1918.	Corresponding return of 1919.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	10 8 0	9 8 0	7 0 0	7 0 0	7 12 0	7 12 0	7 8 0
Chetta Hat ...	...	...	...	...	...	...	...
Burdwan ...	9 7 0	9 0 0	6 0 0	6 4 0	9 3 0	8 8 0	8 4 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 8 0	4 8 0	4 12 0	5 12 0	6 8 0	8 10 0
Chittagong ...	14 0 0	13 0 0	8 0 0	7 0 0	9 0 0	10 0 0	7 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	12 8 0	10 12 0	6 0 0	5 8 0	6 8 0	7 0 0	6 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 8 0	9 0 0	6 0 0	7 8 0	7 5 0	8 0 0	8 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	11 0 0	10 0 0	5 4 0	5 4 0	7 0 0	7 8 0	8 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1916.	Corresponding return of 1917.	Corresponding return of 1918.	Corresponding return of 1919.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 8 0	7 8 0	5 2 0	5 0 0	6 0 0	6 10 0	6 4 0
Chetta Hat ...	...	...	...	...	...	...	...
Burdwan ...	9 5 0	8 4 0	4 2 0	4 0 0	5 0 0	5 8 0	4 14 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 8 0	7 8 0	3 12 0	4 2 0	5 8 0	6 12 0	4 12 0
Chittagong ...	6 8 0	8 0 0	4 0 0	4 8 0	5 4 0	5 2 0	5 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 8 0	10 6 0	5 8 0	5 4 0	6 0 0	5 14 0	5 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	8 5 0	8 10 0	4 0 0	4 10 0	5 3 0	5 12 0	5 10 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	9 8 0	9 8 0	3 12 0	4 12 0	5 4 0	5 10 0	6 10 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of August 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 0 0	8 0 0	6 5 0	5 0 0	4 5 0	4 14 0	4 5 0
Obetla Hat	...	...	...	...	...	...	...
Burdwan	7 12 0	8 0 0	...	6 0 0	5 3 0	5 3 0	...
Kalna	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...
Midnapore	8 12 0 to 9 0 0	8 12 0 to 9 0 0	5 5 0	5 0 0	5 3 0	6 0 0	...
Chittagong	...	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...
Dacca	...	...	...	...	...	...	5 2 0
Narayanaganj	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...
Pabna	(a)	(a)	...	4 0 0	...	...	3 12 0
Sirajganj	...	...	...	...	...	...	...
Rangpur	...	...	5 4 0	5 0 0	5 0 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 5 0	8 5 0	8 10 0	5 0 0	5 5 0	5 10 0	...
Obetla Hat	...	...	...	...	...	...	...
Burdwan	10 5 0	8 0 0 to 11 2 0	8 3 0	5 0 0	5 3 0	5 4 0	...
Kalna	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...
Midnapore	10 0 0 to 11 0 0	10 0 0 to 11 0 0	7 3 0	5 12 0	4 5 0	4 3 0	...
Chittagong	...	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...
Dacca	...	...	...	...	...	...	...
Narayanaganj	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...
Pabna	...	...	...	...	...	...	...
Sirajganj	...	...	...	...	...	...	...
Rangpur	10 0 0	10 0 0	6 3 0	7 0 0	7 3 0	6 3 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of August 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 0 0	7 0 0	4 0 0	3 12 0	3 7 0	3 12 0	4 4 0
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	5 12 0	7 0 0	4 2 0	3 12 0	3 12 0	3 12 0	4 8 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 10 0	7 10 0	4 4 0	3 12 0	4 4 0	4 8 0	...
Chittagong ...	to 8 0 0	to 8 0 0	to 4 6 0	3 8 0	4 4 0	5 0 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	5 4 0	6 8 0	7 8 0	7 0 0	...

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	10 8 0	10 8 0	6 0 0	5 8 0	5 4 0	6 4 0	6 8 0
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	10 8 0	12 0 0	5 12 0	4 8 0	5 8 0	5 10 0	6 8 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 8 0	11 4 0	6 0 0	5 0 0	5 4 0	6 0 0	...
Chittagong ...	to 12 8 0	to 12 4 0	to 7 0 0	to 6 8 0	to 6 8 0	7 0 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	12 0 0	12 0 0	7 8 0	5 0 0	7 0 0	8 0 0	8 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	10 0 0	10 0 0	7 0 0	6 0 0	7 4 0	6 8 0	6 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	6 0 0	7 0 0	7 8 0	6 6 0	6 4 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of August 1919.**

Marts.	LINSBED.			MUSTARD.			GHR.			COTTON (UNGIRED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	55	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	13 0 0	13 0 0	6 3 0	11 3 0	11 3 0	7 12 0	7 12 0	7 12 0	9 0 0	25 0 0	25 0 0	40 0 0
Chella Hat	...	...	...	...	...	...	...	...	...	...	...	...
Burdwan	(a)...	(a)...	6 3 0	13 3 0 to 15 3 0	13 3 0 to 15 3 0	7 0 0	7 3 0 to 8 0 0	8 3 0	8 0 0 to 9 0 0	(a)...	(a)...	37 0 0
Kalna	...	...	...	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...	...	...	...
Midnapore	13 0 0	10 0 0	4 10 0	15 0 0 to 17 0 0	15 0 0 to 17 0 0	8 0 0 to 9 0 0	8 3 0 to 9 0 0	8 3 0 to 9 0 0	8 4 0	40 0 0	40 0 0	50 0 0
Chittagong	15 0 0	10 0 0	10 0 0	13 0 0	14 0 0	7 0 0	13 0 0	10 12 0	6 0 0	(b)...	16 0 0	...
Chandpur	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	12 0 0	12 0 0	5 0 0	12 0 0	12 3 0	8 0 0	14 3 0	11 0 0	10 0 0	...	...	...
Karayanganj	...	...	...	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...	...	...	...
Nadarpur	...	...	...	...	...	...	...	...	...	...	...	...
Pabna	(a)	(a)	...	14 0 0	14 0 0	8 0 0	10 3 0	10 0 0	7 0 0	...	...	...
Guriganj	...	...	...	...	...	...	...	...	...	...	...	...
Rangpur	...	...	...	14 0 0	14 3 0	6 3 0	15 0 0	15 0 0	6 3 0	...	...	...

Marts.	JUTE.			GHR.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	11 0 0	73 0 0	73 0 0	72 0 0	450 0 0	Per 100 pieces. 425 0 0	450 0 0
Chella Hat	...	...	...	...	...	...	...	...	...
Burdwan	(a)...	(a)...	...	73 0 0	75 0 0	70 0 0	(a)...	(a)...	40 0 0
Kalna	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...
Midnapore	7 0 0	7 0 0	5 0 0	80 0 0 to 85 0 0	80 0 0 to 85 0 0	87 0 0 to 70 0 0	425 0 0	Cleaned pieces per 100. 425 0 0 Uncleaned pieces per 100. 400 0 0	300 0 0 175 0 0
Chittagong	...	...	...	...	...	...	...	...	...
Chandpur	2 3 0 to 16 4 0	3 0 0 to 14 5 0	3 0 0 to 10 3 0	...	...	...	...	...	...
Dacca	...	...	...	73 0 0	73 0 0	66 0 0	...	...	...
Karayanganj	11 3 0 to 15 12 0	12 0 0 to 16 0 0	10 0 0 to 11 4 0	...	...	...	...	...	...
Mymensingh	10 0 0 to 19 0 0	9 0 0 to 13 0 0	8 0 0 to 10 0 0	...	...	...	...	...	...
Nadarpur	8 0 0 to 13 0 0	10 0 0 to 13 0 0	7 0 0 to 10 3 0	...	...	...	...	...	...
Pabna	...	...	...	73 0 0	73 0 0	66 0 0	...	...	...
Guriganj	...	...	...	...	...	...	...	...	...
Rangpur	...	...	...	75 0 0	72 0 0	60 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0

(a) Not in stock.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of August 1919.**

Marts.	RICE.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	3 0 0	3 0 0	25 0 0	3 0 0	3 0 0	2 11 0	4 0 0(a)	4 0 0(a)	3 2 0
Chota Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	16 0 0	15 0 0	20 0 0 to 25 0 0	3 0 0	2 14 0	2 12 0	3 2 0(b)	3 2 0(b)	4 4 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	3 0 0 to 14 0 0	3 0 0 to 14 0 0	3 0 0 to 23 0 0	3 10 0	3 10 0	3 8 0	4 0 0(b)	4 0 0(b)	4 3 0
Chittagong	20 0 0	16 0 0	20 0 0	3 12 0	3 10 0	3 4 0	3 0 0	3 0 0	2 4 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	4 4 0	4 0 0	3 4 0	4 1 0(d)	4 1 0(d)	4 3 0
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fabag	20 0 0 to 25 0 0	20 0 0 to 25 0 0	20 0 0	3 12 0	3 12 0	4 10 0	3 12 0	3 12 0	4 0 0
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	22 0 0	20 0 0	22 0 0	4 0 0	4 0 0	4 6 0	4 4 0(a)	4 4 0(a)	4 0 0

(a) Monkey brand. | (b) Rhinoceros. | (c) Elephant. | (d) Gold Mohur.

Marts.	MUSTARD OIL.			FIRWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	22 0 0	0 8 0	0 8 0	1 0 0	.....	.....	.....
Chota Hat	.....	.....	.....	.....	.....	.....	0 8 0	0 8 0	0 8 0
Burdwan	37 3 0	37 0 0	19 8 0	0 8 0	0 8 0	0 8 0	0 7 0 to 0 8 0	0 7 0 to 0 8 0	0 8 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	0 1 10	0 1 10	0 2 7
Midnapore	28 0 0 to 30 0 0	28 0 0 to 30 0 0	22 8 0 to 25 0 0	0 7 0	0 7 0	0 7 0	.....	.....	.....
Chittagong	40 0 0	45 0 0	24 0 0	.....	.....	.....	.....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	42 0 0	42 0 0	25 8 0	.....	.....	.....	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fabua	26 0 0	26 0 0	22 10 0	.....	.....	.....	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	40 0 0	40 0 0	23 0 0	.....	.....	.....	.....	.....	.....

DACCA,  
The 12th September 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



*prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of August 1919.*

DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
	COMMON RICE.						KALAI DAL. ( <i>Phaseolus</i> <i>radialis</i> ).			ARHAR (DAL) OR THUR. CAJAN PEA ( <i>Cajanus</i> <i>indicus</i> ).			SALT.		
	Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
<b>24-PARGANAS.</b>	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.
1 Chella Hat ...	3 12	4 9	7 2	4 4	5 5	9 2	4 0	4 0	6 8	4 0	3 9	6 8	9 7	10 10	9 2
2 Nagra Hat ...	4 1	5 10	9 6	4 10	5 12	10 10	(a)	(a)	8 0	3 5	3 5	6 10	11 6	11 8	13 0
3 Calcutta-Bellaghata	4 9	5 3	6 15	6 0	6 0	8 7	4 7	4 7	4 14	3 10	3 10	6 7	10 0	10 0	12 6
<b>NADIA.</b>															
4 Goari ...	4 9	5 4	8 0	5 6	6 10	9 0	3 8	3 8	5 8	3 3	3 3	6 6	11 0*	11 0*	12 4
5 Ranaghat ...	4 3	4 12	8 4	5 0	5 2	8 2	4 0	4 0	6 9	3 3	3 8	6 0	10 5*	10 5*	10 8
<b>MURSHIDABAD.</b>															
6 Berhampur ...	4 0	4 8	8 4	4 4	4 12	8 8	3 4	3 4	5 8	4 0	4 0	7 0	12 0*	12 0*	11 0
7 Kandi ...	5 0	5 0	10 0	5 2	5 4	10 8	4 0	3 8	6 8	4 0	4 0	7 8	11 0	11 0	11 0
8 Jangipur ...	4 12	5 0	10 4	4 14	5 0	10 12	3 8	3 8	4 8	4 0	4 0	8 0	12 0	12 0	10 8
<b>JESSORE.</b>															
9 Sadar ...	4 0	5 0	10 0	5 0	5 11	10 8	3 4	3 8	6 0	3 4	3 8	6 0	11 4	11 4	10 0
10 Bangson ...	4 7	5 0	11 2	5 0	5 11	12 5	2 11	2 11	4 9	3 3	3 3	6 6	11 4	11 4	11 8
<b>KHULNA.</b>															
11 Sadar ...	5 4	4 0	9 0	5 12	4 9	9 8	3 8	3 12	6 0	3 0	3 0	6 8	10 8	10 8	9 0
12 Bagerhat ...	4 8	4 8	9 0	5 0	5 8	10 0	5 0	5 0	8 0	4 14	4 14	5 2	10 8	10 8	10 0
<b>BURDWAN.</b>															
13 Sadar ...	4 4	4 8	9 0	4 10	5 0	11 0	3 12	3 8	6 4	3 12	3 0	7 12	12 8*	12 8*	9 0
14 Kalna ...	3 14	4 12	8 0	4 5	5 4	9 0	3 4	3 7	6 0	3 4	3 5	5 8	12 12*	12 5*	10 12
<b>BIRBHUM.</b>															
15 Suri ...	4 2	4 12	9 0	5 0	5 0	10 0	4 0	4 0	6 8	2 0	3 3	7 0	11 0*	10 0*	10 8
16 Rampur Hat ...	4 12	4 12	10 0	5 0	5 0	11 0	4 0	3 8	6 3	3 4	3 0	6 0	11 0	11 0	12 0
<b>BANKURA.</b>															
17 Sadar ...	5 0	5 3	9 0	5 4	5 10	10 0	3 14	4 0	7 8	4 0	3 4	6 8	11 0	12 0	10 0
18 Vishnupur ...	5 4	5 6	10 0	5 8	5 10	10 8	4 0	3 10	7 0	3 8	3 2	6 0	10 8	10 0	9 0
<b>MIDNAPORE.</b>															
19 Sadar ...	5 0	5 0	10 1	6 0	5 8	10 6	3 4	3 4	5 4	3 4	3 4	{ 5 4 6 0 }	10 0	10 0	10 0
20 Contal ...	5 8	5 0	12 0	6 0	6 8	13 0	3 0	3 0	7 0	3 0	3 0	7 0	10 0	10 0	8 0
<b>HOOGHLY.</b>															
21 Sadar ...	3 4	4 9	7 4	3 12	5 0	8 0	4 8	3 8	5 8	4 0	4 0	6 8	10 8	10 8	10 0
22 Arambagh ...	4 12	5 12	9 8	5 0	5 14	10 0	3 4	3 4	5 4	3 4	3 0	5 4	10 10	10 10	10 8
<b>HOWRAH.</b>															
23 Sadar ...	4 0	5 0	9 0	4 8	5 5	10 0	4 0	4 0	6 4	4 0	4 0	8 0	10 0	11 0	9 0
24 Ulubaria ...	3 12	5 0	9 0	4 0	5 8	9 8	4 0	3 8	6 0	3 8	3 8	5 12	11 8	11 8	11 6
<b>RAJSHAHY.</b>															
25 Rampur-Boalia ...	4 8	4 8	7 8	4 8	4 8	8 4	3 8	3 0	4 14	3 0	3 0	5 4	9 8*	9 12*	9 12
26 Nator ...	4 12	4 8	11 4	4 14	4 12	15 0	4 0	4 0	6 0	4 0	4 0	7 14	9 8	9 8	9 0
27 Dinajpur—Railway Bazar Hat	4 8	4 13	7 0	4 13	5 2	8 6	3 13	3 14	6 9	3 3	3 5	8 2	10 13	10 13	8 8
28 Jalpatguri—Sadar ...	4 0	5 8	10 0	4 8	5 12	12 0	4 0	4 0	7 0	4 0	4 0	7 0	9 0	9 0	8 0

\* Karkatch.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the Second-half of August 1919—concl'd.**

DIVISION.	Number.	DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURU, CADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
RAJSHAHI.	29	DANJELING.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
		Sadar ...	3 4	3 8	3 8	4 12	5 0	10 0	3 0	3 0	6 8	2 12	2 12	5 8	5 0	5 0	7 0
	30	Biliguri ...	4 0	4 0	9 0	5 0	5 0	10 0	3 8	3 8	7 8	3 8	3 8	8 0	5 0	5 0	8 0
	31	RANGPUR.															
		Sadar ...	3 12	3 8	10 0	4 4	4 8	11 0	3 12	3 12	6 0	3 0	3 0	7 0	9 0	9 0	8 0
		Nilphamari ...	4 0	5 0	9 8	(n)	(n)	10 0	3 0	3 0	7 0	3 0	3 0	7 0	10 0	10 0	10 0
	32	Bogra—Sadar ...	3 15	4 2	7 0	4 8	4 8	8 10	3 6	3 6	7 8	3 6	3 6	6 12	9 12	9 12	8 0
	33	PABNA.															
		Sadar ...	4 0	4 8	10 0	4 12	4 8	11 0	4 0	4 0	10 0	3 14	3 14	5 8	10 8	10 8	8 0
	34	Sirajganj ...	4 0	4 0	9 12	4 8	4 8	11 0	4 8	4 8	7 4	3 12	3 12	7 8	8 0	8 0	8 0
DACCA.	35	MALDA.															
		Sadar ...	4 8	4 10	10 0	4 12	5 0	10 8	4 0	4 0	4 8	3 0	3 8	8 0	12 0	11 0	8 0
	36	Balla—Nawabganj ...	4 10	4 10	11 4	5 4	5 0	11 8	4 4	4 8	5 4	3 8	3 8	8 0	11 0	11 0	9 8
	37	DACCA.															
		Sadar ...	3 8	3 12	7 0	3 12	4 0	9 0	4 8	4 8	4 0	3 8	3 8	5 8	10 0	10 8	9 0
	38	Munshir Hat ...	3 10	4 4	8 0	3 8	4 4	...	(n)	(n)	(n)	(n)	(n)	...	9 0	9 0	8 0
	39	MYMENSINGH.															
		Nasirabad ...	4 0	4 0	8 0	5 0	5 0	8 0	4 0	4 0	8 0	4 0	4 0	5 8	9 0	9 0	8 0
	40	Netrokona ...	3 8	4 0	9 0	3 12	4 4	10 8	5 10	5 12	9 0	3 8	3 8	7 0	10 0	10 0	8 0
	41	FARIDPUR.															
		Sadar ...	3 8	4 14	8 0	3 12	5 0	10 0	3 4	4 2	6 0	3 8	3 12	5 8	10 0	10 0	9 0
CHITTAGONG.	42	Rajbari ...	4 2	4 12	8 12	4 8	5 8	8 12	3 6	3 11	5 10	3 0	3 11	5 8	8 8	8 8	8 8
	43	BAKARGANJ.															
		Barha ...	3 12	4 10	8 0	4 0	5 4	8 6	5 10	5 10	8 0	3 2	3 2	6 0	9 4	9 4	8 8
	44	Pirojpur ...	3 12	4 8	10 0	3 14	4 8	10 0	4 8	4 8	...	(n)	(n)	6 0	8 0	8 0	8 8
	45	TIPPERA.															
		Comilla ...	3 8	3 14	8 8	4 1	5 0	7 10	4 8	5 0	5 4	3 0	3 0	4 10	10 0	10 0	8 8
	46	Chandpur ...	3 4	4 8	8 0	3 14	5 12	11 8	5 0	4 4	5 8	3 12	3 14	7 6	8 0	10 4	9 1
	47	NOAKHALI.															
		Kalitara Hat ...	3 15	4 11	9 0	4 6	4 14	10 0	4 4	4 4	8 8	4 0	4 6	6 2	9 0	9 0	9 0
	48	Feni Hat ...	3 12	4 8	10 0	4 7	5 8	12 0	6 8	6 8	8 0	(n)	(n)	...	8 0	8 0	8 2
CHITTAGONG.	49	CHITTAGONG.															
		Sadar ...	4 8	5 0	9 8	5 0	5 8	10 8	4 0	4 0	6 0	3 0	3 12	6 8	9 0	10 0	10 0
	50	Cox's Bazar ...	6 0	4 12	12 8	(n)	(n)	12 8	3 8	4 0	4 8	3 4	3 4	5 8	9 0	9 0	9 0
	51	Chittagong Hill Tracts—Rangamati.	6 0	4 0	8 0	7 0	5 0	8 0	4 0	4 0	4 0	2 8	3 0	4 0	8 0	8 0	8 0

\* Karkatch.

(a) Not in stock. (b) Ave.

(n) Not reported.

DACCA,  
The 12th September 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 13th September 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 4 0	9 6 0	0 4 0	0 4 3
" medium	9 8 0	9 12 0	0 4 6	0 5 0
Patnai, coarse	9 0 0	9 12 0	0 4 0	.....
" medium	9 14 0	10 5 0	0 4 3	.....
Nagra, coarse	9 2 0	9 12 0	0 4 0	.....
" medium	9 14 0	10 6 0	0 4 3	.....
Dudhkalma	9 8 0	10 0 0	0 4 0	.....
Rangoon Boiled	.....	.....	.....	.....
Kajla	8 0 0	8 4 0	0 3 6	.....
Wheat, Dudhia	7 12 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 4 0	.....	.....	.....
Gram, Patnai (whole)	7 4 0	7 12 0	0 3 0	0 3 9
" dal	8 12 0	9 4 0	0 3 9	0 4 6
Mung " (Hari)	10 12 0	11 8 0	0 5 0	0 6 0
" " (Krishna)	9 12 0	10 8 0	0 5 0	0 5 6
Arhar	8 4 0	10 8 0	0 3 9	0 5 0
Masur " (split)	7 2 0	8 4 0	0 3 0	0 3 6
" " (Khanri)	9 4 0	10 4 0	0 4 0	0 5 0
Kalai	7 12 0	10 0 0	0 3 3	0 4 0
Salt	3 2 0	3 4 0	0 1 6	0 1 9
Sugar (Brown Java)	17 8 0	.....	0 7 0	0 8 0
Gur, Bheli	.....	.....	0 5 0	.....
" Bhursut	10 12 0	11 4 0	0 6 0	.....
" Date	.....	.....	0 3 0	.....
Milk	11 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	39 0 0	40 0 0	1 2 0	1 4 0
Flour, country	9 5 0	10 3 0	0 3 6	0 4 6
Atta, No. 3	8 0 0	.....	.....	.....
" " 2½	9 8 0	.....	0 4 0	0 4 6
" " B	9 14 0	.....	.....	.....
Suji	9 13 0	10 14 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 6 0	2 8 0
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	85 0 0	86 0 0	2 4 0	2 6 0
" (Lalli, Etwa, Sagar, etc.)	81 0 0	82 0 0	2 4 0	.....
Maize	6 4 0	7 0 0	.....	.....
Potato	5 0 0	6 0 0	0 3 0	0 3 6
Patal	4 4 0	5 4 0	0 2 6	0 3 0
Brinjal	3 0 0	3 6 0	0 2 0	0 2 6
Onion	3 4 0	4 0 0	0 1 9	0 2 6
Fish, Rahu	30 0 0	35 0 0	0 10 0	1 0 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

Wholesale.—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

Retail.—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar.

S. C. Roy,

for President, Advisory Food Committee.

CALCUTTA, the 15th September 1919.



## IRRIGATION DEPARTMENT, BENGAL.

**Abstract Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of July 1919, as compared with the corresponding month of the previous year.**

Canals.	1919-20.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	7,424	29,893	...	6,944	4,302	16,134
Hijili Tidal Canal ...	8,414	37,072	402	2,435	5,938	29,813
<b>Total</b> ...	15,838	66,965	402	9,379	10,240	45,947
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	33,861	150,070	1,262	5,960	20,986	99,296
Tolly's Nala ...	16,499	70,853	12,800	45,100	6,223	23,844
Madaripur Bheel ...	61,534	393,922	6	845	19,746	85,701
<b>Total</b> ...	111,894	614,845	14,068	51,805	46,955	2,08,841
Magrahat Channels...	5,363	22,102	...	...	2,669	7,296
Orissa Coast Canal ...	2,498	17,695	...	2,475	872	4,757
Nadia Rivers ...	4,980	10,412	287,200	293,253	968	2,866
<b>GRAND TOTAL</b> ...	124,735	665,054	301,268	347,533	51,464	2,23,760

Canals.	1918-19.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	7,714	32,547	600	3,550	4,794	19,942
Hijili Tidal Canal ...	8,604	24,117	...	1,202	7,473	20,658
<b>Total</b> ...	16,318	56,664	600	4,752	12,267	40,600
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	40,025	168,470	1,053	11,118	23,312	100,999
Tolly's Nala ...	16,271	63,080	6,925	29,946	6,030	20,661
Madaripur Bheel ...	111,533	507,239	6	599	25,755	1,12,435
<b>Total</b> ...	168,429	738,789	7,984	41,663	55,097	2,34,095
Magrahat Channels...	4,691	12,707	...	...	2,347	7,416
Orissa Coast Canal ...	3,684	13,661	5	5,680	1,362	4,959
Nadia Rivers ...	10,114	22,737	159,332	159,387	1,909	5,767
<b>GRAND TOTAL</b> ...	186,918	787,894	167,321	206,680	60,715	2,52,237

CALCUTTA,  
The 13th September 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 11th September 1919

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DATE HEIGHT.		HEIGHT ABOVE P. W. D. DAY OF SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	5th Sept. 1919	6 A.M. ...	25.37'	101.83'	127.20'	0.70'	...	122.20'	121.00'
	... { Rajmahal ...	5th "	6 "	25.85'	56.319'	82.169'	0.55'	...	81.16'	79.81'
	... { Goalundo ...	5th "	8 hours ...	21.50'	...	...	Steady	21.50'	24.70'	24.70'
Bráhmavutra	Gauhati ...	5th "	8 A.M. ...	18.30'	148.76'	167.06'	1.70'	...	172.46'	172.56'
	... { Serajganj ...	5th "	12 hours ...	34.00'	...	...	1.00'	...	...	...
	... { Dibrugarh ...	5th "	8 A.M. ...	17.00'	...	...	...	0.20'	...	...
Meghna	Bhairab Bazar ...	5th "	6 hours ...	14.83'	1.61'	16.44'	...	0.25'	...	...
	... { Chandpur ...	5th "	14 "	10.75'	1.61'	12.36'	0.25'	...	...	...
	... { Fenchuganj ...	5th "	7 A.M. ...	23.80'	...	...	...	0.10'	...	...
Dhaleswari	Sabhar ...	5th "	7 "	25.10'	-8.62'	16.48'	...	0.10'	...	...
Bhagirathi	Swarupganj ...	5th "	6 "	25.99'	1.509'	27.499'	...	0.22'	24.03'	29.95'
Damodar	Edilpur ...	5th "	6 "	15.92'	92.58'	108.50'	3.92'	...	...	...
Lakhya	Narayanganj ...	5th "	...	20.08'	-5.59'	14.49'	Steady	...	...	...
Madaripur Bill Route	Takerhat ...	5th "	6 A.M. ...	13.00'	-0.599'	12.401'	Steady	...	...	...

\* Reading on 4th September 1919 was 16.58' (height above Public Works Department) instead of 16.63' as previously published.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 11th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	6th Sept. 1919	25.67'	101.83'	127.50'	0.30'	...	121.80'	121.00'	
	... { Rajmahal ...	6th "	26.40'	56.319'	82.719'	0.55'	...	81.06'	79.86'	
	... { Goalundo ...	6th "	21.80'	...	...	0.30'	...	21.50'	24.50'	
Brahmaputra	{ Gauhati ...	6th "	19.40'	148.76'	168.16'	1.10'	...	172.36'	171.96'	
	... { Seraiganj ...	6th "	34.30'	...	...	0.30'	...	...	...	
	... { Dibrugarh ...	6th "	17.10'	...	...	0.10'	...	...	...	
Meghna	{ Bhairab Bazar ...	6th "	14.75'	1.61'	16.36'	...	0.08'	...	...	
	... { Chandpur ...	6th "	11.00'	1.61'	12.61'	0.25'	...	...	...	
	... { Fenchuganj ...	6th "	23.80'	...	...	Steady	...	...	...	
Dhaleswari	... Sabhar ...	6th "	25.00'	-8.62'	16.38'	...	0.10'	...	...	
Bhagirathi	... Swarupganj ...	6th "	26.42'	1.509'	27.929'	0.43'	...	23.93'	29.75'	
Damodar	... Edilpur ...	6th "	13.50'	92.58'	106.08'	...	2.42'	...	...	
Lakhya	... Narayanganj ...	6th "	20.25'	-5.39'	14.66'	0.17'	...	...	...	
Madaripur Bili Route	... Takerhat ...	6th "	13.00'	-0.593'	12.401'	Steady	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday the 11th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE.		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	7th Sept. 1919	6 A.M. ...	25.87'	101.83'	127.70'	0.20'	...	121.50'	121.30'	
	7th " "	6 " "	26.90'	56.319'	83.219'	0.50'	...	80.76'	79.81'	
	7th " "	8 hours ...	22.10'	...	...	0.30'	...	21.60'	24.30'	
Brahmaputra	7th " "	8 A.M. ...	19.90'	148.76'	168.66'	0.50'	...	171.86'	172.16'	
	7th " "	12 hours ...	34.70'	...	...	0.40'	...	...	...	
	7th " "	8 A.M. ...	17.50'	...	...	0.40'	...	...	...	
Meghna	7th " "	6 hours ...	15.00'	1.61'	17.61'	0.25'	...	...	...	
	7th " "	16 hours	11.23'	1.61'	12.86'	0.25'	...	...	...	
	7th " "	7 A.M. ...	23.80'	...	...	Steady	...	...	...	
Dhaleswari	7th " "	7 " "	25.30'	-8.62'	16.68'	0.30'	...	...	...	
	7th " "	6 " "	26.67'	1.509'	28.179'	0.25'	...	23.90'	29.55'	
Damodar	7th " "	6 " "	17.08'	92.58'	109.66'	3.58'	...	...	...	
Lakhya	7th " "	...	20.42'	-5.53'	14.83'	0.17'	...	...	...	
Madaripur Bil Route	7th " "	6 A.M. ...	13.00'	-0.599'	12.401'	Steady	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 11th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DATE'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	8th Sept. 1919	6 A.M. ...	26.37'	101.83'	128.20'	0.50'	...	121.30	122.30	
	8th "	6 "	27.25'	56.319'	83.569'	0.35'	...	80.56'	80.01'	
	8th "	8 hours ...	22.40'	...	...	0.30'	...	21.60'	24.20'	
Brahmaputra	8th "	8 A.M. ...	20.70'	148.76'	169.46'	0.80'	...	171.46'	172.16'	
	8th "	12 hours ...	35.00'	...	...	0.30'	...	...	...	
	8th "	8 A.M. ...	17.90'	...	...	0.40'	...	...	...	
Meghna	8th "	6 hours ...	14.83'	1.61'	16.44'	...	0.17'	...	...	
	8th "	17 "	11.58'	1.61'	13.19'	0.33'	...	...	...	
	8th "	7 A.M. ..	23.90'	...	...	0.10'	...	...	...	
Dhaleswari	8th "	7 "	25.50'	-8.62'	16.88'	0.20'	...	...	...	
	8th "	6 "	26.97'	1.509'	28.479'	0.30'	...	23.73'	29.29'	
Bhagirathi	8th "	6 "	13.42'	92.58'	106.00'	...	3.66'	...	...	
Damodar	8th "	...	20.42'	-5.59'	14.83'	Steady	...	...	...	
Lakhsya	8th "	6 A.M. ...	13.00'	-0.599'	12.401'	Steady	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 11th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	9th Sept. 1919	6 A.M.	26.67'	101.83'	128.50'	0.30'	121.30'	122.60'	
	... { Rajmahal ...	9th "	6 "	27.55'	56.319'	83.869'	0.30'	80.51'	80.46'	
	... { Goalundo ...	9th "	8 hours	22.70'	...	...	0.30'	21.40'	24.00'	
Brahmaputra	Gauhati ...	9th "	8 A.M.	21.20'	148.76'	169.96'	0.50'	170.76'	172.26'	
	... { Seraiganj ...	9th "	12 hours	35.50'	...	...	0.50'	...	...	
	... { Dibrugarh ...	9th "	8 A.M.	18.90'	...	...	1.00'	...	...	
Meghna	Bhairab-Bazar	9th "	6 hours	15.08'	1.61'	16.69'	0.25'	...	...	
	... { Chandpur ...	9th "	6 "	11.58'	1.61'	13.19'	Steady	...	...	
	... { Fenchuganj ...	9th "	7 A.M.	24.00'	...	...	0.10'	...	...	
Dhaleswari	... Sabhar	9th "	7 "	25.80'	-8.62'	17.18'	0.30'	...	...	
Bhagirathi	... Swaruganj ...	9th "	6 "	27.23'	1.509'	28.759'	0.58'	23.53'	29.09'	
Damodar	... Edilpur	9th "	6 "	13.25'	92.58'	105.83'	...	...	...	
Lakhya	... Narayanganj	9th "	...	20.75'	-5.59'	15.16'	0.33'	...	...	
Madaripur Bil Route	... Takerhat	9th "	6 A.M.	13.00'	-0.589'	12.401'	Steady	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 11th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	10th Sept. 1919	6 A.M.	26.87	101.83	128.70	0.20	...	121.90	123.10	
	10th "	6 "	27.80	56.319	84.119	0.25	...	80.51	80.71	
	10th "	8 hours	22.90	...	...	0.20	...	21.10	23.80	
Brahmaputra	10th "	8 A.M.	22.00	148.76	170.76	0.80	...	170.36	172.76	
	10th "	12 hours	36.30	...	...	0.80	...	...	...	
	10th "	8 A.M.	19.00	...	...	0.10	...	...	...	
Meghna	10th "	6 hours	15.17	1.61	16.78	0.09	...	...	...	
	10th "	6-30 "	12.00	1.61	13.61	0.42	...	...	...	
	10th "	7 A.M.	24.20	...	...	0.20	...	...	...	
Dhaleswari	10th "	7 "	26.10	- 8.62	17.48	0.30	...	...	...	
	10th "	6 "	27.47	1.509	28.979	0.22	...	23.32	28.88	
Damodar	10th "	6 "	13.00	92.58	105.58	...	0.25	...	...	
Lakhya	10th "	...	21.00	- 5.59	15.41	0.25	...	...	...	
Madaripur Bil Route	10th "	6 A.M.	13.00	- 0.599	12.401	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 11th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DATE'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	Monghyr ...	11th Sept. 1919	6 A.M. ...	26.67'	101.83'	128.50'	...	0.20'	122.20'	123.10'
	Rajmahal ...	11th "	6 "	28.20'	56.319'	84.519'	0.40'	...	80.71'	80.86'
	Goalundo ...	11th "	8 hours	23.00'	...	...	0.10'	...	20.90'	23.70'
Brahmaputra	Gauhati ...	11th "	8 A.M. ...	23.00'	148.76'	171.76'	1.00'	...	170.26'	173.06'
	Serajganj ...	11th "	42 hours	36.70'	...	...	0.40'	...	...	...
	Dibrugarh ...	11th "	8 A.M. ...	19.50'	...	...	0.50'	...	...	...
Meghna	Bhairab Bazar	11th "	6 hours	15.17'	1.61'	16.78'	Steady	...	...	...
	Chandpur ...	11th "	7 "	12.00'	1.61'	13.61'	Steady	...	...	...
	Fenchuganj ...	11th "	7 A.M. ...	24.40'	...	...	0.20'	...	...	...
Dhaleswari	Sabhar ...	11th "	7 "	26.40'	-8.62'	17.78'	0.30'	...	...	...
	Swarupganj ...	11th "	6 "	27.69'	1.509'	29.199'	0.22'	...	23.22'	28.64'
Damodar	Edilpur ...	11th "	6 "	11.50'	92.58'	104.08'	...	1.50'	...	...
Lakhya	Narayanganj...	11th "	...	21.25'	-5.59'	15.66'	0.25'	...	...	...
Madaripur Bil Route	Takerhat ...	11th "	6 A.M. ...	13.00'	-0.599'	12.401'	Steady	...	...	...



## IRRIGATION DEPARTMENT, BENGAL.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1919-20.  
Area leased for irrigation up to end of July 1919.

Circle.	District.	Canal.	Estimated full discharge. C. ft.	Average discharge in month. C. ft.	Discharge utilized. C. ft.	Approximate area of land irrigated during the year up to the end of the month. Acres.	Approximate area of land under irrigation up to the same date last year. Acres.	DETAILS OF AREAS LEASED.					RAINFALL, 1919-20.		RAINFALL, 1918-19.	
								Long-term leases. Acres.	SEASON LEASES.				Inches.	Up to end of month.	Inches.	During month.
									Khari. Acres.	Rabi. Acres.	Sugarcane. Acres.	Hot weather. Acres.	Total. Acres.			
SOUTH- WESTERN	Midnapore	Midnapore	1,411	648	618	71,568 <sup>8</sup>	62,727	62,571†	10,000	...	...	...	10,000	801	30.44	10.33
		Panchkura	522	20	21	3,697	5,456	6,715	...	...	...	...	...	13.96	35.84	10.58
		Tidal Reaches, Ranges I and II.	...	...	...	...	...	...	...	...	...	...	...	13.48	36.24	7.97
	Howrah	Total Midnapore Canal	...	...	...	75,265	68,183	69,286	10,000	...	...	...	10,000	...	...	...
SOUTH- WESTERN	Burdwan and Hooghly	Total of the corresponding period of last year.	...	...	...	...	...	70,916	2,430	...	...	...	2,430	...	...	...
		Eden canal	1,000	332	332	13,182	5,868	17,156†	...	30	22	...	168	12.21	29.61	8.25
		Total of the corresponding period of last year.	...	...	...	...	...	18,419	20	...	12	...	32	...	...	...
		GRAND TOTAL	...	...	...	88,447	74,051	86,442	10,000	30	22	...	10,168	...	...	...
SOUTH- WESTERN		GRAND TOTAL OF THE CORRESPONDING PERIOD OF LAST YEAR.	...	...	...	...	...	89,335	2,450	...	12	...	2,462	...	...	...

\* Of which 34 acres are single watering.

† Of which 65 acres are single watering.

‡ Of which 116 acres are single watering.

CALCUTTA.

The 11th September 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

Approximate return of traffic on the Olroular and Eastern Canals for the week ending Saturday, the 13th September 1919, as compared with the corresponding week of the previous year.

Nature of Cargo.	WEEK ENDING SATURDAY, THE 13TH SEPTEMBER 1919.			WEEK ENDING SATURDAY, THE 14TH SEPTEMBER 1918.		
	boats.	carriage.		Number of	Weight of	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	348	42,765	694	905	123,821	2,083
Jute ...	138	52,240	546	100	49,791†	500
Firewood ...	88	38,700	585	115	46,900	710
Other articles ...	813	212,584	2,107	862	193,728	2,087
Total ...	1,382	346,289	4,022	1,982	414,240	5,330
Empty boats and rafts ...	427	...	807	501	...	1,257
GRAND TOTAL	1,809	346,289	4,829	2,483	414,240	6,587

Mds.  
\* Weight by canal measurement ... 60,927  
† Ditto ditto ... 49,887

CALCUTTA,  
The 16th September 1919.

G. I. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 6th September 1919.

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
31st Aug.	64.05	...	...	...	...	64.0	
1st Sept.	63.9	...	...	...	...	63.9	
2nd "	63.85	...	...	...	...	63.8	
3rd "	63.7	...	...	...	...	63.7	
4th "	63.7	...	...	...	...	63.7	
5th "	63.6	...	...	...	...	63.55	
6th "	63.5	...	...	...	...	63.45	

Notable high and low water-levels of previous years.

27th August	1906	...	...	...	70.5	} Taken at high tide
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1916	...	...	...	68.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	} Taken at low tide.
31st "	1918	...	...	...	69.12	
28th February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
4th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.80	
16th "	1916	...	...	...	50.60	
8th March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 9th September 1919.

B. B. RAY,  
for Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 6th September 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
31st August ...	8 A.M.	Zero of gauge is at mean sea-level.	59.30	61.61	B. M. on Collage stop corrected (P. W. D.) 64.93.
1st September ...	8 "		59.90	61.01	
3rd " ...	8 "		59.70	60.61	
4th " ...	8 "		59.70	60.21	
5th " ...	8 "		60.10	59.81	
6th " ...	8 "		60.70	59.81	

(a) Datum corrected by adding 1.51 to the value of zero, vide Superintending Engineer's No. 2876, dated 8-23-17, 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4621, dated 17th February 1919.

	Old value.	According to P. W. D. datum.
The previous year ... Highest water-level ...	66.52 on 30th August 1918 ...	61.71
Ditto ... Lowest " ...	41.70 on 21st April 1918 ...	56.89
Record ... Highest " ...	69.25 on 26th August 1879 ...	64.44
Do. ... Ditto " ...	69.08 on 9th September 1885 ...	64.27
Do. ... Ditto " ...	68.30 on 26th August 1906 ...	63.47
Do. ... Ditto " ...	68.21 on 26th August 1890 ...	63.40
Do. ... Lowest " ...	37.63 on 25th April 1884 ...	32.82
Do. ... Ditto " ...	38.18 on 14th—15th April 1883 ...	33.32
Do. ... Ditto " ...	39.02 on 21st—22nd April 1897 ...	34.21
Do. ... 27.55 " ...	39.28 on 6th—7th May 1908 ...	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 6th September 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 6th September 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
31st August ...	7 A.M.	22.0	22.0	25.1	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
1st September	7 "	22.0	22.0	25.2	
2nd " ...	7 "	21.8	21.8	25.1	
3rd " ...	7 "	21.6	21.6	25.0	
4th " ...	7 "	21.5	21.5	24.9	
5th " ...	7 "	21.5	21.5	24.7	
6th " ...	7 "	21.8	21.8	24.5	

The previous year ... Highest water-level ...	25.2 on 1st September 1918.	
Ditto ... Lowest " ...	5.3 on 9th March, 1918.	
Record (H.F. in Brahmaputra and Ganges) ... Highest " ...	25.75 on 28th August 1906.	
Record (average flood in Brahmaputra and Ganges) ... Ditto " ...	25.74 on 20th and 21st August 1898.	
Record (H.F. in Brahmaputra and Ganges) ... Ditto " ...	25.68 on 11th to 17th and 31st August and on 1st to 3rd September 1889.	
Record (H.F. in Brahmaputra only) ... Ditto " ...	25.66 on 31st July 1900.	
Do. ... Lowest " ...	1.0 on 8th February 1914.	
Do. ... Ditto " ...	2.42 on 13th March 1903.	
Do. ... Ditto " ...	2.91 on 21st to 24th February and 8th to 9th March 1884.	
Do. ... Ditto " ...	3.16 on 9th to 11th March 1885.	
Do. ... Ditto " ...	3.16 on 16th, 17th and 29th to 31st March 1901.	

N. B.—The gauge-readings commenced from 3rd October 1902.

FARIDPUR,  
The 7th September 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 24, 1919.

## SUPPLEMENT.

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### REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 13TH SEPTEMBER 1919.

THE rainfall during the week was general and sufficient. The agricultural prospects are favourable. Seventy-seven relief works were open during the week. The number of persons relieved on works was 11,355. The number of persons in receipt of gratuitous relief was 13,870, viz., 8,722 on cash doles in 122 unions, 3,683 on paddy-husking advances, 885 weavers and 580 better class poor. The grand total of persons relieved was 25,225. The increase in the number of persons on relief works was due to the completion of field operations, and the decrease in the numbers in receipt of cash doles was due to improvement in the situation. The number of persons relieved on private works was 680. The charitable societies also relieved 805 persons by weekly doles and 900 persons by daily doles and cooked food. During the week three cases of theft of food-grain were reported. Public health is generally good. The outbreak of malaria and cholera is reported from certain localities. The relief measures are adequate. The price of common rice varies from  $4\frac{1}{2}$  to  $5\frac{1}{2}$  seers in the rupee. Burma rice is being sold.

M. C. McALPIN,  
Secy. to the Govt. of Bengal.

DARJEELING, the 18th September 1919.



## FINAL FORECAST OF THE JUTE CROP, 1919.

### Consolidated statement for Bengal, Bihar and Orissa, and Assam.

**Area.**—The estimated area for the three Provinces is 2,821,575 acres, an increase of 321,193 acres on last year's figures.

**Yield.**—It is estimated that the crop will yield 8,486,234 bales of jute, an increase of 1,467,146 bales on last year's returns.

**Remarks.**—Last year's estimates for Bihar and Orissa and Assam have been revised by the respective local Departments.

The consolidated figures are as follows:—

PROVINCE.	AREA IN ACRES.			YIELD IN BALES.		
	1918.	1919.	Difference.	1918.	1919.	Difference.
Bengal (including Cooch Behar).	2,249,026	2,498,145	+ 249,119	6,392,137*	7,637,630	+ 1,245,493
Bihar and Orissa ...	149,256*	203,430	+ 54,174	398,742*†	554,070†	+ 155,328
Assam ...	102,100*	120,000	+ 17,900	228,209*	294,534	+ 66,325
Total ...	2,500,382	2,821,575	+ 321,193	7,019,088	8,486,234	+ 1,467,146

\* Revised.

† Including Nepal.

The Departmental Final Forecasts for each of the three Provinces are appended.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

CALCUTTA,

The 19th September 1919.

[Gratis.]



## APPENDIX.

*Abstract Statement of Estimated Acreage and Outturn of the Jute Crop, 1919.*

(For Bengal, Bihar and Orissa and Assam consolidated.)

ACREAGE.								OUTTURN IN BALES OF 400 LBS.							
Of current year's crop.	Of previous year's crop.	Average of five preceding years (viz., 1913 to 1917).	Average of ten preceding years (viz., 1909 to 1917).	PERCENTAGE BY WHICH COLUMN 1 EXCEEDS (+) OR FALLS SHORT OF (-) AREA IN—			Estimated yield of current year.	YIELD OF PREVIOUS YEAR ACCORDING TO—		Average of five preceding years (viz., 1913 to 1917).	Average of ten preceding years (viz., 1909 to 1917).	PERCENTAGE BY WHICH COLUMN 8 EXCEEDS (+) OR FALLS SHORT OF (-) OUTTURN IN—			
				Column 2.	Column 3.	Column 4.		Crop forecast.	Trade statistics.			Column 9 (a).	Column 9 (b).	Column 10.	Column 11.
1	2	3	4	5	6	7	8	9(a)	9(b)	10	11	12	13	14	15
2,621,575	2,500,393*	2,817,900	2,893,200	+ 12.8	+ 0.76	- 2.1	8,466,224	7,019,086*	7,621,928	8,797,800	8,331,800	+20.9	+11.19	- 3.5	+1.3

\* Revised.



## DEPARTMENT OF AGRICULTURE, BENGAL.

### Final Forecast of the Jute Crop of Bengal for 1919.

(Note.—On an average of the five years ending 1917-18 the area under jute to which this forecast relates represents 87·8 per cent. of the total area under jute in British India.)

**Season.**—As stated in the preliminary forecast, the weather was, on account of drought in March, unfavourable for the sowing of the low land crop, in late February and early March. Only about 30 per cent. of the low land crop was sown at the normal time, and even this was so severely affected by the drought, that premature flowering took place on a wide scale. In East and North Bengal a very large area was sown, in low lands as well as high lands, in the favourable weather in the latter part of April; and the late sown low land crop, in particular, was benefited, by the comparatively scanty rainfall and the slow rise of the rivers in East Bengal in May. In West Bengal a good deal of jute was sown on somewhat heavy rain at the beginning of May; but insufficient rain afterwards hindered further sowings until the end of May and, in some places, till the beginning of June. Subsequently, with the exception of parts of West Bengal, where the rainfall has been rather too heavy, the season has been generally excellent for the jute crop, which made great progress in consequence. There has been a certain amount of damage by insects; but nothing serious anywhere.

**Condition of the crop.**—In the early part of the season, the jute crop was curiously uneven in appearance; but latterly the unusually favourable weather has, as already remarked, produced about an average crop out of what might easily, under other circumstances, have been a failure. These same conditions are, now however, adversely influencing the harvesting of the crop. A larger proportion than usual is, on account of low rivers and insufficient rain, still standing in some tracts, and it may even prove difficult to extract the fibre from a part of this.

**Acreage.**—The area under jute is returned at 2,498,145 acres, an increase of 249,119 acres on last year's final figures. The increase is ascribed chiefly to the high prices realized for last year's crop.

**Outturn.**—As in previous years, the percentage figures are calculated on the basis of Divisional normals, which remain as follows:—Dacca and Chittagong 3·7 each, Rajshahi 3·5, Presidency and Burdwan 3·2 bales per acre.

The total outturn of the Bengal crop is returned at 7,637,630 bales of 400 lbs. against 6,392,137\* bales in last year's forecast, an increase of 1,245,493 bales.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

CALCUTTA,

The 19th September 1919.



## APPENDIX I.

*Final Forecast of the Jute Crop of Bengal, 1919.*

DISTRICT.	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUTTURN AS A PERCENTAGE OF THE NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which harvesting generally commenced, and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
	Last year.	This year.	Last year.	This year.	Last year.	This year.		
1	2	3	4	5	6	7	8	9
	Acre.	Acre.			Bales.	Bales.		
24-Parganas ...	44,425	63,809	73	63	109,777	167,513	Middle of August. Normal.	The increase in area is due to expectation of a good jute market. The increase in the percentage as well as the total outturn is due to a very good crop in the Basirhat subdivision, the largest jute-growing area of the district.
Nadia ...	50,273	67,105	61	71	96,183	154,834	End of July. Normal	Increase of area as compared with last year's estimate is due to high price of jute obtained last year.
Murshidabad ...	13,189	20,626	57	94	22,333	62,455	Middle of August. Normal.	The weather conditions have been fairly favourable. The increase in area as compared with last year's estimate is due to expectation of a good jute market.
Jessore ...	52,034	84,637	73	83	121,551	239,644	August. Normal ...	The increase in the estimated area as compared with the preliminary forecast is due to Bangson figures having been revised after the submission of the preliminary forecast.
Khulna ...	22,505	31,668	96	90	70,057	69,659	August. Normal.	Decrease in area is due to unfavourable weather at sowing time.
Burdwan ...	8,608	6,630	60½	39	14,456	18,904	End of August. Normal.	Favourable weather conditions during the sowing time and anticipated good market account for the increase in area this year. The outturn falls below the normal on account of excessive rainfall from the end of July to end of August and insect pest in the Kalan subdivision.
Midnapore ...	10,545	11,948	80·83	61·25	27,336	21,074	End of August. Normal.	Favourable weather conditions at sowing time account for the increased area. Subsequent heavy rains badly affected the crop and lowered the outturn.
Hooghly ...	27,235	30,649	67½	63·73	76,520	92,568	Last week of August. Normal.	The favourable weather conditions and the anticipated high price of jute account for the increase of area.
Mowrah ...	7,364	9,530	84·99	66·81	19,761	27,284	Last week of August. Normal.	Slight decrease in area as compared with the area shown in the preliminary forecast is due to failure of some late sown crops. Favourable weather at sowing time accounts for the increase in area as compared with last year. Subsequent drought followed by heavy rains adversely affected the crop and lowered the outturn.
Najshahi ...	74,800	72,587	90	88	208,040	227,086	Middle of July. Normal.	
Dinajpur ...	60,000	60,978	85·7	91·7	179,970	196,923	Beginning of August. Normal.	Increase in area is due to good market and favourable weather during sowing time. Inadequate rainfall after sowing caused the outturn to fall below the normal.
Jaipalguri ...	45,890	49,306	80	101	126,492	174,396	Middle of August. Normal.	The crop is very good this year.
Darjeeling ...	2,000	2,216	75	103	5,250	8,000	First week of August. Normal.	The weather condition has been on the whole favourable. The crop is better than last year.
Rangpur ...	200,173	207,664	78	103	546,473	754,073	August. Normal ...	Up to the end of July the season was generally favourable. The rainfall in August was seriously below the normal and steeping was retarded for want of water. There has been a certain amount of rain in September which has improved the situation.



DISTRICT.	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUTTURN AS A PERCENTAGE OF THE NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which harvesting generally commenced, and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
	Last year.	This year.	Last year.	This year.	Last year.	This year.		
1	2	3	4	5	6	7	8	9
	Acres.	Acres.			Bales.	Bales.		
Bogra ...	66,438	69,945	75	80	172,400	195,840	Middle of July. Normal	The weather was unfavourable at sowing time and for some time after, which affected the growth of the crop. The weather, however, subsequently became favourable.
Patna ...	104,102	103,019	81.4	88	299,436	317,370	Middle of July. Normal	Some damage was done by insects in the early stages, but weather being favourable a better crop than last year is expected.
Malda ...	29,000	26,800	80	66	61,200	61,180	Middle of August. Late.	The area has been increased by 200 acres over the preliminary forecast after checking. The decrease, compared with last year, is due to unfavourable weather at sowing time.
Dacca ...	292,462	289,617	79.7	85	842,734	879,677	End of June. Early	The weather was unfavourable at the beginning, but subsequently it became favourable and helped the growth of the crop.
Mymensingh ...	677,923	639,944	81	87	1,733,766	2,021,450	End of July. Normal	The crop was good, but the cultivators have been experiencing much difficulty in steeping jute for want of sufficient water.
Faridpur ...	318,100	324,400	81	84	664,620	801,040	End of July. A little late.	The outturn falling below the normal is due to late sowing and subsequent drought.
Bakerganj ...	80,297	84,638	88	77	164,320	161,476	July. Early ...	The reasons for the fall in outturn are:— (1) Late sowing for want of timely rain-fall. (2) A long spell of dry weather in May retarding growth of the crop. (3) Early harvesting of the crop due to a good market.
Dhittagong ...	300	300	81	81	600	600	First week of September.	
Tippura ...	237,531	244,061	77.8	80	634,906	723,126	Normal at Ohandpur, late in Sadar and Brahmanbaria.	The increase in area is attributed to high price of jute prevailing last year. The weather was unfavourable at the time of sowing. Lack of rainfall at the outset also impeded the growth of the crop. The showers of June, however, improved its condition. The weather since then has been satisfactory.
Noakhali ...	97,800	84,800	70	65	97,800	120,800	Beginning of July. Early.	The increase in area sown is based upon enquiries made since the submission of the preliminary forecast. There was deficient rainfall in April and May and excessive rainfall in June and July. Much immature jute was cut on account of high prices obtained by ralyats in July and August. This also caused a falling off in the outturn.
Total for Bengal.	2,219,312	2,458,065	.....	.....	6,311,111	7,567,833	.....	.....
Add for Cooh Behar.	29,814	29,180	67	81	48,308*		July to middle of August. Normal	The weather was favourable at the time of sowing and weeding. There has been a lack of sufficient water for steeping owing to drought early in August, which prevented harvesting in good time. There was, however, good rainfall in the latter part of August and beginning of September in some parts of the State, which facilitated cutting and steeping.
GRAND TOTAL	2,249,026	2,487,145	.....	.....	6,359,137*	7,637,830	.....	.....

\* Revised.



## APPENDIX II.

*Statement of rainfall in July and August each year from 1916 to 1919.*

DISTRICT.	RAINFALL IN JULY.					RAINFALL IN AUGUST.				
	1916.	1917.	1918.	1919.	Normal.	1916.	1917.	1918.	1919.	Normal.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
24 Parganas ... ..	8.83	14.68	9.87	14.89	13.31	17.23	13.88	11.35	19.87	13.31
Nadia ... ..	3.65	11.31	6.33	13.09	10.17	10.68	7.06	13.65	7.33	10.33
Murshidabad ... ..	6.88	13.68	3.37	10.23	10.84	10.84	6.88	26.74	8.66	11.00
Jessore ... ..	6.12	17.28	6.02	15.28	10.89	14.43	9.36	13.43	10.86	10.76
Khulna ... ..	6.11	16.33	10.82	20.38	18.04	13.43	13.13	13.68	16.41	13.88
Burdwan ... ..	4.91	13.84	8.17	10.71	11.29	13.20	9.33	18.33	10.11	11.12
Midnapore ... ..	6.16	11.80	7.01	10.23	12.47	11.81	1.46	11.19	16.97	11.00
Hooghly ... ..	3.72	10.83	10.41	11.84	13.08	14.63	8.89	10.86	13.36	11.40
Nowrah ... ..	5.94	8.28	10.00	14.93	12.92	17.07	18.00	10.33	26.17	11.17
Hajebahl ... ..	11.88	13.28	7.03	17.16	11.80	13.13	9.97	36.46	10.90	10.43
Dinajpur ... ..	27.16	14.96	18.37	16.73	16.16	18.40	7.53	31.24	8.08	14.31
Jaipalguri ... ..	54.73	27.07	39.86	26.01	24.08	26.84	26.13	27.39	11.01	26.93
Darjeeling ... ..	23.37	26.03	28.89	24.46	21.24	19.36	23.37	26.84	17.09	26.30
Rangpur ... ..	27.98	23.69	24.84	19.13	14.44	16.53	6.51	27.08	6.23	18.91
Bogra ... ..	14.61	8.67	10.73	17.88	13.71	6.01	8.73	29.33	8.09	19.03
Pabna ... ..	5.14	11.94	5.33	16.89	11.10	18.20	7.76	14.91	13.87	10.96
Malda ... ..	14.35	14.16	9.89	21.23	11.74	10.38	6.21	26.07	18.26	11.11
Dacca ... ..	10.81	17.87	17.84	16.87	13.86	17.43	11.78	19.31	9.91	13.66
Mymensingh ... ..	19.09	14.80	31.91	21.36	16.37	25.49	13.78	27.29	10.85	16.48
Faridpur ... ..	8.76	13.73	13.97	20.06	12.30	18.89	10.73	13.19	14.86	13.08
Bakerganj ... ..	13.89	20.32	16.87	23.74	16.15	18.23	18.70	21.71	20.14	16.25
Chittagong ... ..	17.41	27.18	21.24	23.88	20.80	29.97	17.84	20.06	22.71	23.79
Tippere ... ..	7.27	16.76	17.77	16.43	18.71	14.51	13.63	12.64	12.74	14.01
Noakhali ... ..	15.06	23.97	18.88	27.74	23.79	26.53	18.46	23.21	23.16	23.49
Cooch Behar ... ..	33.74	21.31	27.74	24.99	24.88	20.26	13.30	26.06	8.81	21.35

NOTE.—The figures given above are the averages for all the rain registering stations in each district.



## DEPARTMENT OF AGRICULTURE, BIHAR AND ORISSA.

### Final Forecast of the Jute Crop of Bihar and Orissa, 1919.

*(Note.—On an average of the five years ending 1918-19, the area under jute to which the Bihar and Orissa forecast relates, represents about 9·1 per cent. of the total area under jute in British India.)*

**Acreage.**—The final district returns of the seven jute-growing districts of the province show an area under jute of 203,430 acres or in round numbers 203,400 acres, as compared with 202,800 acres reported in the preliminary forecast, 1919, and 149,300 acres, the revised figure for last year. The increase in area is due to better prices obtained last year as also to prospect of better prices this year.

**Weather conditions.**—In March and April the rainfall was below the normal in all jute districts except Cuttack and Balasore, where it was above the normal in the latter month. In May the rainfall was below the normal everywhere except Balasore, where it was above the normal. In June the rainfall was above the normal in all jute districts except Champaran and Muzaffarpur, where it was slightly below the normal. In July, the rainfall was above the normal in Muzaffarpur, Bhagalpur, Purnea and the Santal Parganas and below the normal in the remaining three districts. In August it was above the normal in the Santal Parganas, Cuttack and Balasore, but below the normal in Purnea, Bhagalpur and especially in Champaran and Muzaffarpur. Difficulty is experienced in parts of Purnea for steeping the crop for want of sufficient rainfall. Damage has been done by recent floods in Cuttack.

**Outturn.**—In the important districts of Purnea and Cuttack the outturn of the crop has been reported at 83 and 59 per cent. of the normal, respectively. Champaran, Muzaffarpur and Balasore report an yield of 95, 92 and 90 per cent., respectively. The Santal Parganas anticipates a normal crop, while Bhagalpur reports 77 per cent. only.

On the basis of the area and percentage outturn reported by the District Officers and taking three bales as the normal outturn per acre, the total gross outturn of the crop for the province this year comes to 495,859 bales or in round numbers 495,900 bales against 335,300 bales, the revised figure for last year.

The average import of raw jute into this province from Nepal during the last three years was equivalent to 58,211 bales. This figure added to the figure for the province arrived at gives a total for Bihar and Orissa of 554,070 bales or in round numbers 554,100 bales.

A. C. DOBBS,

*Offg. Director of Agriculture,  
Bihar and Orissa.*

RANCHI,

*The 10th September 1919.*



## APPENDIX I.

## Final Forecast of the Jute Crop of Bihar and Orissa for 1919.

DIVISION.	District.	3	4	5	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUTPUT AS A PERCENTAGE OF A NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which harvesting generally commenced, and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
					Last year (1918).	This year (1919).	Last year (1918).	This year (1919).	Last year (1918).	This year (1919).		
Tribut	Obenparan	Acres.	Acres.	Acres.	Acres.	Acres.	100	93	Bales.	Bales.	Between August and September. Normal.	Rainfall has not been favourable for the crop. The present condition of the crop is fair. This year's output is expected to be a little less than that of last year for want of abundant rains. The date of harvesting was normal.
	Muzaffarpur	1,943,324	1,927,000	1,700	1,900	2,400	100	82	5,400	6,073	August. Normal	The date of harvesting was normal.
	Bhagalpur	2,661,020	1,664,100	1,327 (a)	848 (b)	1,150	100	77	2,446 (a)	2,446	August. Normal	In the first forecast the estimated area under jute this year was shown as 1,397 acres. This figure included 107 acres under "Kudrum," which has now been deducted. The figure, 1,180 acres, shown in column 7, represents area under jute proper.
	Furnas	3,196,133	1,694,400	219,000	125,000	1,700	75	83	374,600	435,750	July. Normal	Deficient rain in May caused the crop on some lands to dry up. During June and July the rainfall was good, but very deficient in August. Hence though the crop is good difficulty is experienced in some areas over obtaining sufficient water for "retting," which may affect the total output. Prospect of the crop is good at present. Increase in area is due to small stock remaining in the district and prospect of good prices.
Orissa	Santal Parganas	2,466,100	1,680,200	2,000	1,300	1,700	100	100	2,900	5,100	.....	The weather was all along favourable, but the recent and continuous flood and excessive rain damaged the crop in Jajpur Subdivision. Hence the output is low.
	Cuttack	2,340,307	1,323,600	16,400	18,700	18,500	83	69	26,465	32,745	First week of August. Normal.	The weather conditions have been favourable. General prospect of the crop is good. The increase in area and output is due to the favourable weather and rainfall in time.
Orissa	Balasore	1,323,621	932,300	2,800	2,200	2,480	80	90	5,380	6,036	Not yet begun	The weather conditions have been favourable. General prospect of the crop is good. The increase in area and output is due to the favourable weather and rainfall in time.
	Total	17,198,265	10,379,800	246,037 or in round numbers 246,100.	148,765 or in round numbers 149,300.	303,430 or in round numbers 303,400.	75	81	325,313 or in round numbers 325,300.	353,359 or in round numbers 353,900.	.....	

(a) Revised by the Collector.

(b) Revised with reference to revised "normal" area.



## APPENDIX II.

*Abstract Statement of estimated acreage and outturn of Jute Crop, 1919.*

PROVINCE.	ACREAGE.								OUTTURN IN BALLES OF 400 LBS.							
	Of current year's crop.	Of previous year's crop.	Average of five preceding years (viz., 1913 to 1917).	Average of ten preceding years (viz., 1908 to 1917).	PERCENTAGE BY WHICH COLUMN 5 EXCEEDS (+) OR FALLS SHORT OF (-) ANNA IN—			Estimated yield of current year.	YIELD OF PREVIOUS YEAR.		Average of five preceding years (viz., 1913 to 1917).	Average of ten preceding years (viz., 1908 to 1917).	PERCENTAGE BY WHICH COLUMN 9 EXCEEDS (+) OR FALLS SHORT OF (-) OUTTURN IN—			
					Column 3.	Column 4.	Column 5.		Crop forecast.	Trade statistics.			Column 10(a).	Column 10(b).	Column 11.	Column 12.
1	2	3	4.	5	6	7	8	9	10(a)	10(b)	11	12	13	14	15	16
Bihar and Orissa ...	303,400	149,300	256,800	257,200	+24.34	-20.79	-20.93	496,900	385,300	...	635,600	602,900	+47.89	...	-30.73	-17.45

## APPENDIX III.

NAME OF DISTRICT.	RAINFALL IN SEPT.				RAINFALL IN AUGUST.				NORMAL RAINFALL.	
	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.*	July.	August.
1	2	3	4	5	6	7	8	9	10	11
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Champanan ...	23.23	17.78	9.94	12.38	10.48	6.87	14.80	4.35	14.08	14.98
Muzaffarpur ...	15.49	12.67	13.86	13.31	12.08	6.07	16.03	3.80	11.18	13.28
Bhagalpur ...	20.83	11.38	10.30	12.67	13.14	6.86	22.47	7.51	12.10	11.69
Purnea ...	21.49	16.69	14.90	18.30	13.88	7.24	27.38	10.17	10.77	14.06
Sasral Parganas ...	12.43	13.68	7.43	16.59	11.37	7.66	20.49	13.06	12.64	11.06
Outtack ...	8.94	10.67	4.67	11.73	12.58	14.37	9.61	17.03	12.19	12.66
Balacore ...	6.47	10.84	4.84	7.36	9.30	13.72	10.91	22.48	11.30	11.23

\* Figures relate to headquarters only.



## DEPARTMENT OF LAND RECORDS AND AGRICULTURE, ASSAM.

### Final Forecast of the Jute Crop of Assam, 1919.

(Note.—On the average of the five years ending 1917, the area under jute in Assam represents some 2.3 per cent. of the total area under jute in British India.)

1. **Season.**—The weather was not favourable for sowing, but the rain in June favoured growth as indicated in the preliminary forecast; since its issue the rain of July, though a little short, continued the good prospects of June, but there was a considerable deficiency in August, which adversely affected retting operations rather than outturn.

2. **Area.**—As in previous years the figures for the permanently settled areas of Sylhet and Goalpara have been compiled by the village *panchayats* and for other districts by the Land Records staff.

The area under jute as reported by the Deputy Commissioners is 120,000 acres against the revised figure of 102,100 acres of last year and 115,300 acres shown in the preliminary forecast of this year. The increase is mainly due to the better price obtained for the crop in last year; in Sylhet the want of early spring rain at the time for sowing broadcast rice was also responsible for the increase, as the rain in April was not too late for sowing jute; in the Brahmaputra Valley further immigration from Mymensingh helped to increase the area sown. Five districts have revised the areas reported in the preliminary forecast.

3. **Outturn.**—The outturn of jute per acre according to the Deputy Commissioners' estimates comes to 72 per cent. of the normal against 68 (revised) of the preceding year. Taking 3.3 bales (of 400 lbs.) as the normal yield per acre for the province, the total outturn comes to 294,500 bales against 228,200 bales (revised) of last year or an increase of 27 per cent.; but retting has been retarded by shortage of water.

J. McSWINEY,

*Director of Land Records and Agriculture, Assam.*

SHILLONG,

*The 13th September 1919.*



## APPENDIX I.

## Final Forecast of the Jute Crop of Assam, 1919.

DISTRICT.	Estimated normal area under jute.	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUT-TURN AS A PERCENTAGE OF THE NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which the harvesting was commenced and whether that date was early, normal or late.	REMARKS BY DEPUTY COMMISSIONER.
		Last year (actual).*	This year.	Last year.	This year.	Last year.*	This year.		
1	2	3	4	5	6	7	8	9	10
	Acres.	Acres.	Acres.			Bales.	Bales.		
Oschar ...	200	100	400	57	90	234	1,410	August. Normal	The increase in area is due to the high price of jute last year and that in out-turn to more favourable weather.
Sylhet ...	16,000	12,600	26,100	65	68	25,157	88,412	July. Normal	The increase in area is due partly to better price and partly to inability to broadcast winter rice on account of drought in the early spring. The crops suffered to some extent from drought at the beginning.
Goalpara ...	42,400	50,500	45,200	53	61	69,015	110,249	1st July. Early	The increase in area is due to the high price in last year. Weather at the beginning was unfavourably dry. The crop suffered to some extent in Goalpara subdivision from insect pests. On the whole, the outturn is expected to be better than last year.
Kamrup ...	8,100	12,100	12,000	65	93	26,731	40,441	29th July. Early	The small decrease in area is due to alteration in the district boundary. The weather has been dry, but the prospects of the crop are fair. Some damage has been done by insects. The outturn is expected to be better than last year.
Darrang ...	7,000	9,300	9,000	90	80	24,722	33,881	1st August. Early	The increase in area as compared with last year is due partly to immigration of jute cultivators and partly to high prices. The weather was not favourable owing to shortage of rain.
Nowgong ...	5,700	10,300	11,700	100	90	25,934	24,749	1st July. Early	The increase in area is due to the influx of Mymensingh settlers and good prices in last year. The outturn is below-normal owing to want of rain. Some damage is reported to have been done by insects.
Bibangar ...	800	400	400	80	95	1,106	1,372	2nd week of August. Normal.	The weather was not favourable at the beginning of the season, but improved subsequently.
Lakhimpur ...	200	200	100	92	95	465	360	15th September. Normal.	The decrease in area is due to unfavourable weather at sowing time; it improved afterwards and the outturn is expected to be better than last year.
Garo Hills ...	4,100	4,600	4,300	98	100	14,825	2,560	1st August. Normal	The decrease in area is due partly to the fact that some jute remained unsold last year. The weather has been favourable on the whole.
Total ...	84,100	102,100	120,900	68*	72	228,809	294,584		

\* Revised on the basis of crop abstract.



## APPENDIX II.

*Abstract Statement of estimated acreage and outturn of the Jute Crop, 1919.*

PROVINCE.	ACREAGE.								OUTTURN IN BALES OF 400 LBS.							
	Of current year's crop.	Of previous year's crop.*	Average of five preceding years (viz., 1913 to 1917).	Average of ten preceding years (viz., 1908 to 1917).	PERCENTAGE BY WHICH COLUMN 5 EXCEEDS (+) OR FALLS SHORT OF (-) AREA IN—			Estimated yield of current year.	YIELD OF PREVIOUS YEAR ACCORDING TO—		Average of five preceding years (viz., 1913 to 1917).	Average of ten preceding years (viz., 1908 to 1917).	PERCENTAGE BY WHICH COLUMN 9 EXCEEDS (+) OR FALLS SHORT OF (-) OUTTURN IN—			
					Column 3.	Column 4.	Column 5.		Crop forecast.	Trade statistics.			Column 10.	Column 11.	Column 12.	Column 13.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Assam ... ..	120,000	102,100	96,100	90,000	+17½	+26	+28	294,500	228,200	145,400	241,400	231,800	+29	+108	+22	+27

\* Revised on the basis of crop abstract.

## APPENDIX III.

*Statement of rainfall in July and August 1916—1919.*

DISTRICT.	RAINFALL IN JULY.				RAINFALL IN AUGUST.			
	1916.	1917.	1918.	1919.	1916.	1917.	1918.	1919.
1	2	3	4	5	6	7	8	9
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Oachar	18'22	17'46	31'15	12'77	22'04	19'53	22'34	12'36
Sylhet	21'26	18'37	37'01	18'96	24'53	21'10	22'19	12'16
Goalpara	28'36	18'05	26'60	19'45	12'43	9'39	22'34	10'05
Kamrup	10'39	20'45	24'97	13'24	11'03	9'64	22'05	9'28
Darrang	12'48	18'59	26'23	18'92	11'82	10'53	18'96	8'00
Nowgong	12'94	19'06	17'40	16'42	11'29	11'39	17'37	9'44
Sibsagar	14'51	18'09	17'40	18'39	12'33	15'58	18'49	11'55
Lakhimpur	24'07	26'04	22'28	26'52	18'91	16'00	19'38	17'97
Garo Hills	31'78	18'51	31'01	26'27	20'07	10'58	20'47	9'08



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 18th September 1919.

**Summary.**—During the week the rainfall throughout the province was generally light to moderate. More rain is needed in places of Rangpur, Dacca and Mymensingh for the transplantation and growth of winter rice and steeping of jute. Harvesting of autumn paddy and transplanting of winter paddy are nearly over. Weeding of winter paddy is in progress. Cutting, steeping and washing of jute continue. Damage to jute by insect-pests continues to be reported from places in the 24-Parganas. Condition and prospects of standing crops are generally satisfactory. The average price of common rice for the province has fallen by 1·60 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	0·02	{ 5½ 6½ }	4½	Transplanting of <i>aman</i> paddy and harvesting of <i>aus</i> paddy continue. Condition and prospects of jute are good. Effects of weather on the crop are good. Damage by insects is reported from some places in Barasat subdivision. Harvesting of jute continues. Fodder and water are sufficient.
	Diamond Harbour.	(n)	(n)	4½	
	Barrackpore	Nil	{ 4½ 6½ }	4½	
	Barasat ...	0·30	4	4	
	Basirhat ...	1·20	{ 5½ 6 }	4	
2	NADIA ...	0·69	4½	4½	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy is nearly finished. Lands are being prepared for <i>rabi</i> crops. Effects of weather are favourable to jute, some damage is done by insect pests. Cattle-disease is reported from Chakdah thana. Burma rice is not available.
	Kushtia ...	0·04	4	4	
	Meherpur ...	0·15	6	6½	
	Chuadanga ...	0·42	4½	4½	
	Ranaghat ...	1·50	4	4	
3	MURSHIDABAD	0·38	4½ to 4½	4½ to 4½	Prospects of standing crops are good. Harvesting of <i>aus</i> paddy and jute continues. Transplanting of <i>aman</i> paddy has been almost finished. Weeding continues. Fodder is sufficient. No large import or export. Burma rice is not available except in Lalbagh subdivision.
	Lalbagh ...	0·51	4½ to 6½	5½	
	Jangipur ...	1·44	4½	4½	
	Kandi ...	1·30	5 to 5½	4½	
4	JESSORE ...	0·11	{ 4 5½ }	4	Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy are finished. Standing crops are doing well. Condition and prospects of jute are fair. Steeping and washing continue. Fodder is sufficient.
	Jhenidah ...	0·28	{ 5½ 5½ }	4½	
	Magura ...	0·14	4	4	
	Narail ...	0·58	{ 4½ 5½ }	4	
	Bangaon ...	1·60	6½	4½	

\* Burma rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKHS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
5	KHULNA ...	Nil	{ 5 6† }	4	Transplantation of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are going on. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cutting and steeping are going on. Water and fodder sufficient.
	Satkhira ...	1·90	4†	4	
	Bagerhat ...	Nil	{ 4½ 5† }	4†	
6	BURDWAN ...	Nil	{ 5 6½† }	4†	Weather bright. Condition of <i>aman</i> paddy and sugarcane is good. Weeding of <i>aman</i> paddy and harvesting of jute and <i>aus</i> paddy continue. Insect pest called <i>bhepo</i> is reported from Galsi circle; the damage done to paddy so far is small. Burma rice is available only in Sadar subdivision.
	Asansol ...	1·17	4†	4†	
	Katwa ...	3·32	5†	4½†	
	Kalna ...	0·40	4½†	4†	
7	BIRBHUM ...	0·25	4†	4†	Weeding of winter paddy continues. Prospects of standing crops are favourable. Fodder and water are sufficient. Burma rice has been indented for but has not yet been received.
	Rampurhat	Nil	4†	5	
8	BANKURA ...	2·04	{ 5 6† }	4½	Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	1·94	5½†	5	
9	MIDNAPORE	0·77	{ 5½ 5½† }	4½	Harvesting of autumn rice is progressing. Condition and prospects of jute, <i>bhadol</i> <i>til</i> and autumn rice are fair. Cattle-disease is reported from Khajri thana. Burma rice is not available either at Sadar or subdivision.
	Ghatal ...	0·45	{ 5 5½† }	5	
	Tamluk ...	Nil	{ 4½ 5½† }	4½	
	Contai ...	0·29	{ 6 6½† }	5†	
10	HOOGHLY ...	0·03	{ 4½ 5½† to 6½† }	4½	Effects of weather on the growth of the crops are favourable. Condition and prospects of jute are good. No damage. Harvesting is going on in full swing. Fodder is sufficient.
	Serampore ...	Nil	{ 4† 6† }	4†	
	Arambagh ...	0·70	5†	5†	
11	HOWRAH ...	0·38	{ 4½ 6½† }	4†	Weather hot. Sugarcane is doing well. Condition of jute is good. Harvesting of jute continues in low lands and has commenced in high lands. Burma rice is not yet available in the Ulubaria subdivision. Fodder is sufficient.
	Ulubaria ...	0·18	4	4	
12	RAJSHAHI (RAMPUR-BOALIA).	3·82	4†	4†	The prospects of standing crops are favourable. Harvesting of jute and <i>aus</i> paddy and transplanting of winter paddy continue; Burma rice is out of stock. Fodder is sufficient.
	Naogaon ...	1·95	3†	3†	
	Nator ...	1·14	4†	4	

\*Common rice.

†Coarse rice.

‡ Burma rice.



Serial No.	District and sub-division.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ...	0.30	3½	3½	Weather seasonable. Condition of standing crops fair. Transplantation of <i>aman</i> paddy still continues. Rice market is rising at Thakurgaon and Balarghat. Burma rice has not yet arrived here.
	Thakurgaon	1.94	4	4½	
	Balarghat ...	1.73	3½	4	
14	JALPAIGURI	2.48	4½	4	Prospects of standing crops are fair. Harvesting of jute and <i>bhadai</i> paddy continues. Insects are reported from Baikunthapur. No cattle-disease. Fodder and water are sufficient.
	Alipur ...	1.01	3½	3½	
15	DARJEELING	3.41	4½	4½	Maize, potatoes and cadamom are being harvested. Marua is progressing. Transplantation of autumn rice is going on. Stocks of food-grains are inadequate. Fodder and water are sufficient. Cattle-disease is reported from one place. Burma rice is being sold per maund at Rs. 7-5 at Darjeeling, at Rs. 7-1 at Kurseong, and at Rs. 7-10 at Kalimpong. Siliguri has not received Burma rice yet.
	Kurseong ...	3.94	4½	5	
	Siliguri ...	3.41	3½	3	
	Kalimpong ...	2.40	5½	5	
16	RANGPUR ...	2.30	3½	3½	Weather seasonable. Harvesting of jute and transplantation of winter paddy are going on but more rain is urgently wanted for winter rice and for steeping of jute. Condition and prospects of jute are good. Weather is not favourable for winter rice and jute. Burma rice is now being sold only to railway employees in Saidpur at 7 seers a rupee. Supplies for the district have been indented for, but have not yet arrived. Fodder and water are sufficient.
	Nilphamari	3.31	3½	3½	
	Kurigram ...	4.08	3½	3½	
	Gaibandha ...	0.80	3½	4½	
17	BOGRA ...	3.32	{ 3½ 6 }	3½	Transplanting of winter paddy and harvesting of <i>aus</i> paddy are nearly finished. Harvesting of jute continues. Prospects are fair.
18	PABNA ...	0.23	{ 4½ 6 }	4	Prospects of standing crops are good. There has been no large export of rice; but there have been some imports to Pabna and Sirajganj. Water is subsiding. Fodder is sufficient.
	Sirajganj ...	1.25	{ 4 5 }	3½	

\* Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN RUPEES, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
19	MALDA ..	1.03	{ 4 5½ }	4	Weather seasonable. Transplanting of winter rice is nearly finished. Condition of jute is fair. Harvesting continues. Lands are being prepared for mustard and other <i>rabi</i> crops. Fodder and water are sufficient. Cattle-disease continues to be reported from Bholahat thana.
20	COOCH BEHAR	5.04	7½	7½	Weather rainy and cloudy. Transplantation of <i>haimanti</i> paddy seedlings is going on briskly. Harvesting of <i>bitri</i> paddy is finished. Fodder is sufficient.
21	DACCA ...	0.01	{ to 4½ 5½ }	4	Rain is wanted for transplantation of winter rice, which is almost finished. The condition of <i>aghani</i> is good owing to rise of river level. Prospects of jute and paddy are good.
	Manikganj ...	Nil	{ 4½ 5½ }	4	
	Narayanganj	0.40	{ 4 5½ }	4	
	Munshiganj*	0.82	{ 3½ 5½ to }	4	
22	MYMENSINGH	0.49	{ 3½ 5½ }	3½	Weather seasonable. More rain is wanted. Harvesting of <i>aus</i> paddy is finished. Harvesting and steeping of jute are going on. Prospects of standing crops are fair. Fodder is sufficient. Cattle-disease is reported from Jamalpur and Kishorganj subdivisions.
	Jamalpur ...	1.37	{ 3½ 5½ }	3½	
	Tangail ...	Nil	{ 3½ 4 }	3½	
	Netrakona ...	1.09	{ 4 5½ }	4	
	Kishorganj...	0.67	{ 3½ 5½ }	3½	
23	FARIDPUR ...	0.30	{ 3½ 5½ }	3½	Weather favourable to standing crops. Prospects of <i>aman</i> paddy are good. Harvesting of jute is nearly finished. Fodder is sufficient.
	Goalundo ...	0.68	{ 4½ 5½ }	4½	
	Madaripur ...	Nil	{ 4 4 }	4	
	Gopalganj†...	0.34	{ 4 4 }	3½	
24	BAKARGANJ (BARISAL).	0.05	{ 3½ 4½ 6½ }	3½ 5½ 6½	Prospects of jute are fair; weather is favourable. No damage done to the crop. Harvesting is almost finished. Prospects of other crops are fair. Fodder is sufficient.
	Pirojpur ...	0.22	{ 4 4 }	3½ 4	
	Patuakhali...	0.02	{ 5½ 5½ }	4½ 4½	
	Dakshin Shalabazpur (Bhola).	1.57	{ 3½ 4½ }	3½ 4½	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(a) Not reported.

‡ *Aus* rice.

•• Common rice.

§ *Burma* rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEEDS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
25	CHITTAGONG	1.73	{ 5 6½† }	4½	Prospects of standing crops are good. Transplanting of <i>aman</i> paddy is going on. Harvesting of <i>aus</i> paddy is nearly finished. <i>Panya</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
	Cox's Bazar	0.32	{ 4½ 4½† }	4½	
26	TIPPERA (COMILLA).	1.10	{ 4½ 5½† }	4½	The prospects of <i>aus</i> paddy are fair and those of <i>aman</i> paddy are hopeful. Prospects of jute are good. The price of rice still rules high. Harvesting of <i>aus</i> paddy and transplanting of <i>aman</i> paddy are nearly finished.
	Brahmanbaria.	0.28	{ 4½ 4½† }	4½	
	Chandpur ...	1.50	{ 4½ 4½† }	5	
27	NOAKHALI ...	1.18	{ 3½ 5½† }	3½	Weather seasonable. Transplantation of <i>aman</i> paddy continues. Harvesting of jute is nearly finished. Fodder is sufficient.
	Feni ...	2.09	{ 3½ 5 }	4½	
28	CHITTAGONG HILL TRACTS.	0.88	{ 5 7† 4° }	4½ 6† }	Sowing of paddy on high land continues. Reaping of <i>jhum</i> paddy continues. Small damage to <i>jhum</i> paddy has been done by insects in Bohmong circle. Fodder is sufficient.

\* *Aus* rice.

† Local rice.

‡ Burma rice.

J. C. ROY

for Director of Agriculture, Bengal.

DACCA, the 21st September 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 20th September 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 6 0	.....	0 4 0	0 4 3
" medium	9 8 0	9 14 0	0 4 6	0 5 0
Patnai, coarse	8 8 0	9 6 0	0 3 9	.....
" medium	9 8 0	9 12 0	0 4 0	.....
Nagra, coarse	8 7 0	9 4 0	0 3 9	.....
" medium	9 8 0	9 13 0	0 4 0	0 4 6
Dudhkalma	9 8 0	.....	0 3 9	.....
Rangoon (Arwa)	.....	.....	0 2 6	.....
Kajla	7 8 0	7 12 0	.....	.....
Wheat, Dudhia	7 8 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 0 0	.....	.....	.....
Gram, Patnai (whole)	7 4 0	8 0 0	0 3 3	0 3 6
" dal	8 12 0	9 4 0	0 3 9	0 4 6
Mung " (Hari)	10 8 0	11 8 0	0 5 0	0 6 0
" " (Krishna)	10 0 0	10 8 0	0 5 0	0 5 6
Arhar " "	7 12 0	10 8 0	0 4 0	0 5 0
Masur " (split)	7 0 0	8 0 0	0 3 3	0 3 6
" " (Khanri)	9 0 0	10 0 0	0 4 6	0 5 0
Kalai "	7 12 0	8 8 0	0 4 0	0 5 0
Salt	3 2 6	3 5 0	0 1 6	0 1 9
Sugar (Brown Java)	18 5 0	.....	0 7 6	0 8 0
Gur, Bheli	.....	.....	.....	.....
" Bhursut	11 0 0	11 4 0	.....	.....
" Date	.....	.....	.....	.....
Milk	10 0 0	12 0 0	0 4 0	0 5 0
Mustard oil	38 8 0	39 12 0	1 1 0	1 4 0
Flour, country	9 8 0	10 3 0	0 3 3	0 4 0
Atta, No. 3	7 15 0	.....	0 4 0	0 4 6
" " 2½	8 3 0			
" " B	10 7 0			
Suji	9 14 0	10 12 0	0 4 9	0 5 0
Ghee (Bhadwa, Matki, etc.)	91 0 0	92 0 0	2 8 0	.....
" (Patiram, Khurja, Rutó, Etwa, better kind, etc.)	86 0 0	87 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	81 0 0	82 0 0	2 4 0	.....
Maize	6 8 0	7 0 0	.....	.....
Potato	5 12 0	6 0 0	0 2 9	0 3 0
Patal	6 0 0	7 0 0	0 3 0	0 4 0
Brinjal	4 0 0	4 4 0	0 2 0	0 2 6
Onion	3 10 0	4 0 0	0 2 0	0 2 6
Fish, Rahu	30 0 0	35 0 0	0 14 0	1 0 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphanage Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 20th September 1919.



## DAILY RAINFALL RECORDED IN

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[illegible]

(a) Not ascertained.



## DAILY RAINFALL-RECORDED IN

DIVISION	DISTRICT	Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Burdwan	Midnapore	Contai	2.57	0.67	1.04	0.33	0.30	1.32	3.20	0.30	0.07	0.03	0.07	3.26	0.32	...	0.16	0.09	...	0.06	0.19	0.22
		Tamuk	0.54	0.29	1.02	0.33	0.03	0.06	3.41	0.25	...	...	0.63	...	0.32	...	...	...	...	0.48	0.25	0.21
		Midnapore	1.27	1.19	...	...	...	...	3.10	0.04	...	0.23	0.49	5.75	0.03	...	...	...	0.06	0.26	0.13	0.25
		Qatal	0.81	0.07	0.11	0.09	1.55	0.06	2.60	0.40	...	0.77	1.40	3.20	0.07	...	...	...	...	1.52	0.02	0.16
		Kakrahati	0.93	0.75	0.04	0.71	...	0.29	4.25	1.10	...	...	1.99	1.13	...	...	...	...	...	3.91	0.66	...
		Amalgara	1.01	0.42	0.10	...	0.25	...	3.30	1.16	...	...	1.11	1.90	0.25	...	...	...	0.17	0.13	...	3.54
		Panku a	0.50	0.14	...	...	0.30	...	4.00	...	...	...	...	0.38	1.00	0.15	...	0.10	0.15	...	0.10	0.20
		Dantan	2.00	0.67	0.20	1.50	...	0.40	5.25	...	...	0.63	0.19	4.02	0.85	...	...	...	0.65	...	...	0.20
		Chandrakona	1.52	1.25	...	...	...	3.73	3.12	3.90	...	0.12	0.07	...	...	...	0.18	...	...	0.12	...	...
		Paelet	2.40	0.72	...	0.27	1.01	1.60	2.00	0.63	...	...	0.12	0.07	1.30	0.24	...	...	0.61	0.75	0.71	...
		Itanagar upur	0.62	...	...	1.62	...	3.16	0.66	...	...	0.21	0.18	3.62	0.11	...	...	...	0.47	...	...	...
		Nayabagan	0.95	0.90	0.10	0.22	0.16	0.70	0.68	0.14	...	...	0.26	1.90	0.33	0.26	0.26	...	...	0.24	...	0.66
		Hidra (Jelpa-hari)	0.98	0.73	...	...	0.75	...	1.53	2.60	0.04	...	0.26	1.90	0.33	0.26	0.26	...	...	0.24	...	0.66
		Chandri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Qandara	0.92	1.26	...	...	0.25	...	7.74	1.00	...	...	0.20	1.77	0.20	...	...	...	...	...	...	0.63
		Saiboni	0.90	1.25	...	...	1.04	...	6.10	0.11	...	...	0.18	0.60	0.15	0.14	...	...	...	0.11	...	1.54
		Narayangan	0.84	1.03	0.63	2.15	3.65	1.13	0.31	...	0.11	...	0.13	0.12	0.15	...	...	...	...	0.05	0.10	0.16
		Ramagan	2.08	0.60	...	...	5.07	...	3.07	...	...	...	1.60	3.82	...	...	...	...	...	...	...	...
		Mahampur	0.82	0.05	0.30	1.55	0.66	2.32	0.56	...	...	0.06	0.42	3.42	0.34	...	...	0.17	...	0.38	0.13	...
		Hemra	2.56	0.25	...	1.30	0.40	0.25	3.15	0.20	...	0.30	1.00	2.50	...	...	...	0.10	0.30	0.30	0.15	0.20
		Jenka (Kajri)	2.40	1.64	0.13	0.02	0.90	0.35	2.06	2.12	...	0.05	1.22	2.12	0.03	0.03	0.11	0.23	0.01	1.02	0.45	0.01
		Nandigram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Moyna	1.10	...	...	0.15	1.10	0.30	2.10	0.40	...	0.30	0.40	2.10	0.15	...	...	...	...	0.40	0.20	0.15
		Pingla	0.40	2.10	...	0.80	...	...	0.90	1.50	...	...	0.60	1.80	0.20	...	...	...	...	...	...	0.15
		Narajole	0.21	0.24	0.51	0.02	0.31	0.03	4.31	0.03	...	...	...	1.80	0.20	...	...	...	...	...	...	0.15
Hooghly	Hooghly	Serampore	0.38	0.33	0.15	0.02	0.57	0.09	1.38	0.16	...	...	0.31	0.49	0.40	...	...	...	0.09	0.40	0.12	3.48
		Hooghly	0.39	0.42	0.36	...	1.45	0.29	1.56	0.12	...	...	0.24	0.64	1.19	0.52	0.10	...	0.11	0.68	0.08	1.20
		Arambagh	0.62	0.23	...	0.65	1.86	0.04	2.64	0.23	...	...	2.06	1.64	0.26	0.02	...	...	0.22	0.16	0.01	0.20
	Howrah	Howrah	0.54	0.74	0.44	0.11	3.15	0.25	4.25	0.12	...	...	0.87	2.12	0.19	...	...	...	0.42	0.20	1.07	...
		Moheba	0.36	0.16	0.11	0.39	0.02	1.02	4.43	0.19	...	...	1.66	2.09	...	...	...	...	0.33	0.09	1.03	0.07
		Utharia	0.60	0.62	0.07	0.14	0.67	0.34	9.70	0.75	...	0.34	2.70	1.06	...	0.05	...	...	...	0.26	0.80	0.05
		Amra	1.24	0.10	0.03	1.10	0.19	0.10	8.00	0.35	...	...	2.00	2.52	0.10	...	...	...	...	0.32	0.43	2.24
	Bonga	Bonga	0.05	0.33	0.22	0.78	0.48	0.21	0.60	0.14	0.12	0.95	0.71	0.27	0.02	1.02	0.06	1.22	0.13	0.73	0.39	1.61
		Natore	0.33	0.22	0.21	0.60	0.01	0.77	0.40	0.40	0.39	0.63	0.16	0.40	0.01	0.61	0.03	0.06	0.85	0.06	0.06	0.07
		Nangan	0.06	0.26	...	0.05	0.31	0.49	0.25	0.11	...	0.94	0.02	0.08	0.75	...	0.24	0.72	1.00	1.00	0.25	0.11
		Bhadrak	...	...	...	...	1.97	0.48	0.18	0.34	0.44	0.07	1.16	...	...	0.77	0.26	0.75	0.40	1.09	0.42	...
		Mahabpur	...	0.14	0.25	0.25	1.00	...	0.26	0.25	0.48	0.17	0.04	0.04	0.49	...	0.56	0.08	1.21	0.01	0.12	0.64
		Tanor	0.08	0.10	0.20	0.80	0.75	0.80	0.20	0.70	0.30	0.20	0.30	0.40	0.30	0.06	0.30	0.40	0.30	0.30	0.70	0.04
		Chaugram	0.15	0.05	0.05	...	0.80	0.40	0.60	0.10	0.15	1.00	0.16	0.80	...	...	0.50	0.20	2.10	0.05	0.96	...
		Joari	0.25	0.29	...	0.42	0.27	0.45	0.42	0.58	0.08	0.29	0.66	0.21	...	0.17	0.30	0.05	0.98	0.08	0.23	0.60
	Dinajpur	Nithpur	...	0.10	0.73	2.16	...	0.45	0.25	...	0.80	0.65	...	0.38	0.12	...	...	...	1.16	...	1.65	0.30
		Nawalganj	...	...	0.06	1.10	0.70	...	0.10	0.20	...	0.08	...	...	0.30	...	...	0.18	0.30	0.70	0.30	...
		Gangarampur	...	...	0.34	0.49	2.32	...	0.16	...	0.22	0.21	...	...	...	...	...	...	0.18	...	1.67	0.11
		Chauran	...	...	0.52	0.56	...	...	...	...	...	0.71	...	...	...	...	...	...	0.05	0.42	0.31	0.11
		Raiganj	...	...	0.24	...	0.20	0.21	0.18	0.43	...	0.71	...	...	...	0.35	...	...	0.25	0.37	2.20	0.76
		Dinajpur	...	0.10	0.60	...	...	0.05	0.20	0.12	...	0.71	...	...	...	...	...	0.25	0.35	0.41	0.43	0.47
		Thakurgaon	0.66	...	0.10	0.45	2.10	...	0.02	...	0.20	...	0.06	0.50	...	0.20	...	1.30	0.35	0.10	0.2	0.10
		Sataganj	...	...	...	...	0.90	...	1.05	...	0.19	0.03	0.22	...	0.04	...	1.65	...	0.13	0.08	0.07	0.48
		Ramganj	...	...	...	...	...	...	...	...	...	0.84	...	...	...	...	0.20	0.70	0.75	0.29	1.10	...
		Atwari	...	...	...	...	...	0.25	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Birganj	0.35	...	...	1.40	0.56	...	0.25	...	...	...	...	...	...	...	1.15	...	...	...	...	...
		Parbatipur	...	...	...	1.11	...	0.98	...	...	0.35	...	0.09	...	...	...	0.82	...	...	1.19	...	...
	Jalpaiguri	Jalpaiguri	0.25	...	...	1.80	0.34	0.68	0.06	0.27	0.16	0.16	1.55	1.65	...	...	0.26	...	0.44	0.10	1.40	...
		Alipur Duar	...	0.20	0.04	...	0.06	...	0.80	0.27	...	...	1.52	0.07	...	...	0.31	0.30	...	0.20	2.12	1.54
		Falakata	...	...	...	2.29	...	0.29	0.25	...	...	...	1.58	0.80	...	...	3.10	0.40	...	1.35	0.20	1.24
		Dehganj	...	...	...	...	2.29	0.03	0.20	...	...	0.05	...	...	...	...	0.06	0.27	...	0.31	...	...
		Bhagatpur	...	...	1.15	...	...	0.24	0.11	0.80	0.04	0.31	1.80	...	0.24	0.59	0.03	0.63	0.52	0.96	0.45	...
		(Nagrakata)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Buxa	...	0.21	0.25	0.20	...	2.60	0.68	...	...	...	...	...	...	0.10	1.20	0.10	0.04	...	...	...
		Kalehri	...	...	1.63	1.68	...	1.35	0.42	0.04	...	...	1.10	0.68	...	1.80	1.73	0.02	0.99	...	...	0.04
		Kumargram	...	...	...	0.35	...	0.45	0.35	...	...	...	1.40	0.12	...	0.19	...	...	...	...	...	...
	Darjeeling	Siliguri	...	...	0.22	0.45	1.00	0.22	0.27	...	0.85	0.02	...	0.67	...	0.02	...	...	0.70	1.55	1.00	...
		Darjeeling	1.45	0.72	0.16	0.29	2.25	0.11	1.11	2.37	1.82	0.03	...	0.10	0.75	...	0.04	0.04	0.02	0.64	0.55	0.34
		Kalimpong	1.05	0.80	0.19	0.02	0.19	...	1.67	2.20	1.82	0.03	...	0.26	1.65	0.17	0.03	...	1.72	0.55	0.58	0.19
		Monghoo	0.28	1.24	0.08	0.03	0.88	0.08	1.44	1.27	0.20	0.02	1.42	...	...	...	0.13	0.31	1.13	0.55	0.71	0.63
		Kampong	...	0.23	0.73	0.12	3.60	0.62	1.43	0.92	0.56	0.21	0.19	1.73	0.08	...	0.22	0.25	0.62	0.54	0.68	0.61
		Pedong	0.20	1.38	0.56	0.28	0.63	0.14	0.27	0.72	0.72	0.13	0.49	1.40	0.01	0.06	0.65	0.22	1.25	0.78	0.63	



## BENGAL FOR THE MONTH OF AUGUST 1919—contd.

	22	23	24	25	26	27	28	29	30	31	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st June up to 31st August 1919.	Normal rainfall from 1st June up to 31st August.	Station.	DISTRICT.	DIVISION.
...	0.39	0.30	0.31	1.08	0.04	0.12	1.45	...	0.59	...	21	15.3	18.54	12.42	3.28	48.74	56.04	Contai	Maldah	BURDWAN—contd.
...	0.54	0.63	...	0.64	0.68	0.70	1.00	1.08	1.07	0.01	12	14.4	12.67	12.70	3.41	43.02	35.25	Tamuk.	Maldah	
...	0.21	0.80	...	...	...	...	...	...	...	0.73	15	15.5	20.04	12.60	3.20	39.65	34.95	Maldah.	Maldah	
...	...	...	...	...	...	...	...	...	...	0.13	19	16.8	16.88	12.87	3.80	36.13	35.11	Kukrahal.	Maldah	
...	...	...	...	...	...	...	...	...	...	0.15	...	19	15.3	12.91	11.44	4.00	3.80	Amjagura.	Maldah	
...	...	...	...	...	...	...	...	...	...	0.10	17	13.7	19.88	11.16	3.25	41.87	32.36	Panskura.	Maldah	
...	0.59	0.59	1.11	0.43	0.15	0.96	0.12	0.14	...	...	17	13.0	16.80	10.86	5.00	42.36	35.72	Dantan.	Maldah	
...	...	...	...	0.44	0.22	0.76	0.11	0.24	...	0.86	19	15.2	16.36	11.20	3.00	42.76	37.47	Obhadrakona.	Maldah	
...	...	...	...	...	...	...	...	...	...	0.90	14	13.6	14.73	10.86	3.62	32.04	32.04	Pachet.	Maldah	
...	...	0.10	...	0.46	0.25	1.20	...	...	0.90	0.15	17	(n)	11.00	(n)	3.00	30.44	(n)	Bhagwanpur.	Maldah	
...	...	...	0.50	0.04	0.17	0.52	0.25	0.10	0.15	1.20	17	14.0	13.36	10.36	3.60	33.56	29.74	Kultiki.	Maldah	
...	...	...	...	...	...	...	...	...	...	...	16	(n)	(n)	(n)	...	...	...	Nayabaran.	Maldah	
...	...	...	0.18	...	...	0.82	0.32	0.96	1.41	0.20	16	14.8	18.21	9.73	7.71	44.21	31.25	Silda.	Maldah	
...	...	0.03	0.16	...	0.10	1.84	0.03	2.17	0.45	0.18	16	13.7	17.35	7.13	6.10	37.01	27.79	Chandri.	Maldah	
...	...	0.18	0.45	0.39	0.45	1.09	0.47	1.05	0.15	0.19	22	17.2	15.21	10.27	3.95	30.16	37.45	Qalitoro.	Maldah	
...	...	...	0.50	...	...	...	...	...	...	...	12	13.0	17.82	9.84	3.82	44.05	32.46	Sabond.	Maldah	
...	0.27	0.17	0.48	0.78	1.64	0.47	0.58	0.18	...	0.23	21	11.1	15.87	9.84	2.42	53.65	33.31	Narayanagarh.	Maldah	
...	...	0.15	1.00	0.30	0.30	0.80	...	0.5	...	...	21	13.5	16.15	11.76	3.15	42.23	36.95	Ramnagar.	Maldah	
...	0.18	0.87	0.16	0.18	0.60	0.41	0.45	0.05	0.02	0.17	21	16.1	20.18	11.68	4.12	30.07	38.72	Mohampur.	Maldah	
...	...	0.15	1.00	0.20	1.19	1.20	...	1.20	...	0.93	21	14.9	14.76	10.71	2.10	61.10	21.86	Heoria.	Maldah	
...	...	0.20	0.20	0.10	0.70	1.00	0.30	1.30	0.20	...	18	12.3	14.40	8.27	2.10	34.10	34.47	Nandigram.	Maldah	
...	0.24	1.74	...	0.24	0.34	1.46	0.32	0.83	...	...	16	15.7	17.81	13.25	4.22	31.52	42.90	Mogha.	Maldah	
...	0.43	...	0.08	0.02	0.02	0.18	0.23	0.02	0.01	...	15	16.7	8.21	11.30	2.48	28.98	34.02	Narajole.	Maldah	
...	0.18	...	0.28	...	0.03	0.04	0.45	0.05	0.02	...	17	15.8	10.37	10.37	1.6	31.90	31.34	Hooghly.	Hooghly	
...	...	...	...	...	...	2.07	0.69	0.04	1.63	0.40	19	15.9	19.09	12.36	2.79	34.50	24.82	Ararabagh.	Hooghly	
...	0.19	1.41	0.23	0.19	0.34	1.09	1.23	0.39	0.08	0.31	23	17.1	20.01	11.32	4.26	48.95	34.56	Howrah.	Howrah	
...	0.15	0.20	0.66	0.28	0.76	0.53	0.50	4.10	1.12	0.62	24	16.3	28.47	10.31	9.70	64.70	34.08	Moharaka.	Howrah	
...	0.10	0.47	0.25	0.26	0.35	1.16	0.40	1.17	0.83	0.79	24	15.8	26.74	10.58	8.00	84.90	35.23	Umbatia.	Howrah	
...	...	...	...	...	...	0.72	1.03	0.67	0.03	0.03	19	14.7	13.07	10.48	1.81	36.06	31.81	Amra.	Howrah	
...	...	0.11	0.23	...	0.04	0.22	0.36	1.03	...	0.20	20	16.2	10.16	11.36	1.02	29.26	34.91	Boalia.	Boalia	
...	...	...	...	...	2.43	0.27	0.30	...	0.02	0.26	17	14.7	8.82	9.99	2.48	38.28	34.25	Nato.	Boalia	
...	...	0.22	0.09	...	...	1.09	0.80	1.21	...	0.06	16	16.5	13.49	10.43	1.99	41.18	31.67	Naugion.	Boalia	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bilmaria.	Boalia	
...	0.50	...	...	0.80	0.51	1.41	0.35	0.11	0.10	0.13	21	14.7	9.88	11.76	1.61	46.91	31.81	Manda.	Boalia	
...	0.06	...	...	1.30	0.70	0.70	0.50	...	0.08	0.36	30	15.6	9.98	8.74	1.00	20.15	30.26	Mahadebpur.	Boalia	
...	0.42	0.70	...	...	0.35	0.15	1.18	0.86	0.18	0.07	20	(n)	11.70	(n)	2.15	28.70	(n)	Tanor.	Boalia	
...	0.87	0.44	...	...	0.25	0.14	1.15	0.86	0.18	0.07	22	(n)	10.85	(n)	1.15	...	(n)	Chaugram.	Boalia	
...	...	...	...	...	1.63	2.00	0.05	0.30	...	0.10	17	14.0	14.89	10.53	2.16	44.01	34.02	Jorai.	Boalia	
...	...	...	...	0.60	0.50	2.05	1.45	...	0.20	...	14	13.2	7.94	13.94	1.45	36.01	46.21	Nithpur.	Boalia	
...	...	...	...	...	0.63	1.27	0.21	...	...	...	13	15.4	7.16	13.65	2.32	31.96	42.26	Naubaganj.	Boalia	
...	...	...	...	...	0.06	0.21	0.19	0.44	...	...	...	...	...	...	...	...	...	Gaugrampur.	Boalia	
...	...	...	...	...	0.15	0.65	1.24	0.38	...	0.06	11	16.4	8.44	12.90	2.19	31.62	38.08	Choramon.	Boalia	
...	...	...	...	...	0.15	0.15	1.24	0.08	...	0.12	15	16.3	8.79	12.96	3.30	35.04	41.66	Raukanj.	Boalia	
...	...	...	...	...	0.70	0.90	0.08	...	0.12	...	14	16.7	6.30	12.35	1.15	26.96	41.01	Dinajpur.	Boalia	
...	...	...	...	...	1.43	0.57	0.37	...	0.16	...	14	16.5	7.98	11.73	2.10	41.45	26.93	Balukhat.	Boalia	
...	...	...	...	...	0.40	0.40	0.86	0.12	0.67	...	14	15.4	8.22	16.95	1.95	41.67	53.91	Thakurgaon.	Boalia	
...	0.50	...	...	...	...	...	0.28	...	0.45	...	11	14.9	6.80	14.94	1.10	37.46	44.98	Sataganj.	Boalia	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ranganj.	Boalia	
...	...	...	...	...	...	...	...	...	...	...	5	16.8	9.28	22.28	3.60	52.10	47.68	Atwari.	Boalia	
...	...	...	...	...	0.32	0.56	0.27	0.07	0.29	...	11	16.6	7.40	13.02	1.15	37.76	68.25	Birganj.	Boalia	
...	...	...	...	...	0.30	2.00	0.16	...	0.07	...	7	15.6	5.06	14.26	2.00	31.91	43.74	Parbatipur.	Boalia	
...	...	...	...	0.24	0.05	0.24	1.63	...	0.18	...	17	13.0	11.55	25.00	1.65	64.88	70.78	Jalpaiguri.	Jalpaiguri	
...	...	...	...	0.79	0.10	0.38	0.27	...	0.40	...	13	17.7	10.21	26.24	2.12	68.63	88.11	Alipur Duara.	Jalpaiguri	
...	...	...	...	0.15	0.10	0.19	0.12	...	0.20	...	15	18.3	13.29	22.63	3.10	82.66	72.74	Falakata.	Jalpaiguri	
...	...	...	...	0.43	...	0.25	0.71	...	0.23	...	11	16.4	6.24	15.94	2.34	49.67	54.06	Debiganj.	Jalpaiguri	
...	...	...	...	...	0.27	0.05	0.07	0.78	...	0.26	18	22.7	11.31	22.67	1.80	81.41	95.96	Bangapur.	Jalpaiguri	
...	...	...	...	...	...	...	...	...	...	...	13	23.8	8.83	45.19	2.80	111.90	133.70	(Nagrakata).	Jalpaiguri	
...	...	...	...	...	1.40	0.62	0.26	...	0.08	...	12	21.6	13.21	33.44	1.72	86.29	94.40	Buxa.	Jalpaiguri	
...	...	...	...	...	3.40	0.84	...	3.00	...	2.30	41	19.0	12.68	30.98	3.40	92.02	101.75	Kalchul.	Jalpaiguri	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kumargram.	Jalpaiguri	
...	...	...	...	...	...	...	...	...	...	...	14	21.3	10.76	27.33	2.22	80.70	84.73	Siliguri.	Dooars	
...	...	...	...	...	0.32	0.04	1.04	0.03	0.31	0.03	18	24.3	20.43	25.70	2.94	81.24	81.44	Darjeeling.	Dooars	
...	0.07	...	...	...	...	...	...	...	0.09	0.19	19	30.2	15.63	19.87	2.20	55.25	60.61	Kalmpong.	Dooars	
...	...	...	...	...	...	...	...	...	0.46	0.13	21	22.1	18.39	27.04	4.01	72.17	82.68	Mongpo.	Dooars	
...	...	...	...	...	...	...	...	...	0.22	0.16	24	26.4	21.00	25.81	4.24	119.85	111.03	Kurseong.	Dooars	
...	1.32	0.01	0.06	0.02	0.2															



## DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAJ- SHAMI.	Malda	Malda	0.20	0.09	...	...	0.75	0.03	0.92	0.28	0.09	...	0.18	0.13	0.08	0.35	0.19	0.13	...	1.25	0.15	...
		Quanshal	0.03	0.03	0.12	0.08	...	0.06	0.06	0.06	0.32	0.88	0.04	...	...	0.04	0.42	0.38	0.08	0.80	0.27	...
		Gazol	0.06	...	0.27	1.62	...	...	0.60	0.40	0.88	0.80	2.40	...	...	...	0.45	1.85	...	...	0.84	...
		Silganj	...	0.72	0.66	0.66	1.80	...	0.62	0.32	0.08	0.02	0.08	1.64	0.05	0.36	...	0.32	...	0.60	0.68	...
		Omastapur	0.48	...	...	...	1.01	...	1.02	...	...	0.37	0.17	...	...	0.42	...	0.14	0.34	0.82	2.12	...
Dacca	Dacca	Nawabganj	...	...	0.60	0.66	...	...	...	...	1.02	0.49	...	...	...	...	0.39	...	...	2.62	1.47	...
		Munshiganj	0.02	0.42	0.18	...	...	0.37	0.52	0.22	0.03	0.07	0.06	0.04	...	0.12	0.18	0.05	...	0.87	0.24	...
		Dacca	0.25	0.40	0.04	...	...	0.71	0.10	0.71	0.40	0.03	0.33	0.06	0.02	0.37	0.31	...	0.03	0.81	0.60	...
		Nawabganj	0.25	0.37	0.01	...	...	0.11	0.50	0.40	0.80	0.59	0.09	0.05	...	...	...	...	0.55	1.10	1.00	...
		Narayanganj	0.16	0.26	0.09	...	...	0.47	0.40	0.49	0.16	0.09	0.03	0.09	0.02	0.12	...	...	...	0.92	2.25	...
Mymensingh	Mymensingh	Narayanganj	0.20	0.16	...	...	...	0.42	0.33	0.05	0.80	0.50	...	0.02	0.03	...	0.17	...	0.42	0.62	1.20	...
		Manikganj	0.37	0.23	0.04	...	...	0.03	0.69	0.93	0.34	0.19	0.24	0.14	0.03	0.22	0.42	...	...	0.19	1.17	0.25
		Jayabagar	0.15	0.19	0.02	...	0.17	0.21	0.13	0.58	0.06	0.07	...	0.08	...	0.03	0.02	...	0.19	1.17	0.25	...
		Kapasia	0.40	0.32	...	...	...	0.20	...	...	...	...	...	...	...	...	...	...	...	0.60	0.43	...
		Mymensingh	0.23	0.65	...	...	...	0.25	...	...	0.12	0.18	0.26	...	...	0.02	2.17	...	0.80	0.25	1.12	...
Dacca	Faridpur	Atin (Tangail)	...	...	...	...	...	0.23	...	...	0.02	0.54	0.89	0.72	0.11	...	...	...	0.28	0.62	0.20	...
		Sariatkuri	0.35	...	0.08	0.05	...	0.06	0.08	...	0.20	...	0.10	...	0.16	0.30	...	0.18	1.20	0.12	0.20	...
		Mamshingh	0.54	0.16	...	...	...	0.01	0.11	0.01	...	0.06	...	...	0.09	1.07	0.04	0.03	0.04	1.26	0.25	...
		Jamshidpur	0.27	0.14	0.06	0.07	0.19	0.02	0.07	0.62	0.26	...	0.41	...	0.01	...	...	0.74	0.07	0.09	0.04	...
		Netrakona	0.26	...	...	0.05	...	0.08	...	0.43	0.28	...	0.22	0.05	0.04	0.02	0.43	0.38	0.45	0.42	0.24	...
Dacca	Faridpur	Pingim	...	...	...	0.45	...	...	0.12	...	0.11	0.07	...	0.03	0.08	0.02	0.20	0.24	0.06	0.72	0.22	...
		Dinaganj	...	0.22	0.12	0.05	...	0.16	0.84	0.48	0.69	...	1.06	...	0.04	0.52	...	0.65	1.43	0.42	3.05	0.70
		Sherpur	0.11	...	...	...	...	0.66	...	0.17	...	...	0.28	...	...	0.21	0.18	0.05	0.08	0.22	0.29	...
		Dewangaj	...	...	...	1.80	1.02	...	...	1.60	0.12	...	0.78	...	...	...	0.86	0.03	0.63	0.81	0.65	...
		Saltakari	1.90	...	...	...	...	...	...	...	...	...	...	...	0.10	0.20	...	...	...	...	...	...
Dacca	Faridpur	Medanpur	0.84	1.03	0.23	...	...	...	0.10	0.81	0.47	0.75	...	0.07	0.67	0.14	0.06	...	...	2.24	0.36	...
		Faridpur	0.72	0.91	0.54	0.24	0.02	0.02	0.05	4.06	0.46	0.05	0.23	0.06	0.54	1.90	0.01	0.03	0.19	0.70	0.47	...
		Rajbari	0.60	0.42	1.77	0.19	...	0.87	0.15	0.78	0.04	0.20	0.25	0.06	0.34	0.27	...	0.02	0.34	0.25	0.14	...
		(Gautundo)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Haridaspur	1.40	0.30	0.09	0.12	...	0.09	0.29	0.74	0.19	0.26	0.47	0.15	0.17	0.21	...	0.04	0.67	0.90	0.11	
Dacca	Bakerganj	Takorhat	0.91	0.90	0.29	...	...	0.07	0.22	0.70	0.08	0.55	0.61	0.08	0.07	0.39	0.21	0.03	0.12	0.62	0.17	...
		Dhanga	1.75	2.05	0.50	0.06	...	...	0.75	2.05	1.80	...	0.03	0.10	0.25	0.05	...	0.30	0.50	1.05	0.76	...
		Pangsa	0.19	0.05	0.03	0.05	0.10	1.01	0.59	0.49	...	0.61	0.06	0.23	0.34	...	0.42	0.57	0.18	0.98	0.20	...
		Balla kandi	0.40	1.53	1.89	0.26	0.09	0.28	0.10	0.88	0.05	0.06	0.03	0.23	0.07	1.18	...	0.20	0.53	0.54	0.82	...
		Diguna	1.10	0.83	...	0.25	...	...	0.35	0.48	0.60	0.66	0.47	...	0.09	...	0.14	...	0.99	0.21	0.43	...
Dacca	Bakerganj	Palong	0.75	2.02	0.30	...	...	...	0.07	0.15	0.21	...	0.45	0.25	0.48	...	...	...	1.25	1.20	0.30	...
		Patnakhali	2.20	2.08	0.99	0.05	0.10	0.17	0.19	0.24	0.07	...	...	...	0.46	0.09	0.08	...	0.13	1.20	2.00	...
		Barguna	0.87	0.29	0.45	0.05	0.26	0.24	0.09	0.13	...	0.13	0.42	0.28	0.22	...	0.77	0.12	2.15	1.78	1.07	...
		Pirojpur	1.97	0.30	0.22	0.20	...	0.54	0.14	0.20	0.18	0.13	0.46	0.06	0.55	0.45	0.25	...	0.30	0.48	1.70	...
		Barisal	2.11	1.68	1.24	...	...	...	0.16	0.24	0.20	...	0.08	0.18	0.37	...	0.11	...	0.14	1.26	0.82	...
Dacca	Chittagong	Gaurnadi	1.15	1.00	1.02	...	...	1.12	0.30	0.40	0.20	0.12	...	0.03	0.65	...	0.22	...	0.04	0.60	0.82	...
		Bhola	1.86	2.26	1.97	...	0.69	0.66	0.46	0.17	0.42	0.60	0.25	0.04	0.22	0.16	0.24	0.04	0.09	0.94	1.88	...
		Daulatkhan	0.48	3.32	1.30	...	0.09	0.12	0.10	0.15	1.42	0.04	0.05	1.12	0.25	...	0.24	0.18	0.40	2.72	1.64	...
		Bauphal	2.34	1.12	...	...	0.23	1.12	1.71	...	0.14	...	...	0.07	0.12	0.02	...	...	1.04	2.90	2.90	...
		Chittagong	2.23	1.71	2.25	0.20	0.16	0.78	1.65	2.66	4.80	0.12	1.21	1.41	2.12	0.42	0.29	0.12	0.02	0.25	1.42	2.28
Dacca	Chittagong	Chittagong	1.10	0.13	3.60	0.63	1.05	0.23	4.75	2.46	2.85	0.11	0.06	0.17	0.40	0.61	0.10	0.46	...	...	1.60	2.07
		Kutubdia	1.14	0.62	4.80	0.10	...	0.20	2.05	1.20	2.40	0.62	0.83	1.85	2.25	0.65	1.10	...	...	0.10	1.60	2.07
		Satkania	0.24	...	0.11	0.30	...	0.05	0.15	4.00	0.26	0.20	...	0.36	0.45	0.95	0.16	0.80	0.12	0.85	0.30	...
		Kudua	...	0.06	0.55	0.25	...	1.26	1.12	0.62	0.20	0.10	...	...	0.48	0.61	0.16	0.14	0.14	1.40	0.02	...
		Misraal	1.10	4.60	0.20	0.28	...	1.20	2.40	1.08	0.14	0.19	0.27	...	0.22	...	...	...	...	4.40	0.76	...
Dacca	Tippera	Oomilla	0.17	0.05	0.40	...	0.14	0.08	0.12	1.95	0.26	0.26	...	...	...	0.42	0.09	...	0.22	0.12	2.16	0.06
		Chandpur	0.03	0.67	0.39	0.02	...	0.61	0.06	0.32	0.49	0.47	0.03	0.20	0.06	0.28	0.27	...	0.11	0.82	1.20	...
		Brahmanbaria	1.20	0.05	...	...	0.28	0.14	...	0.12	0.21	...	0.02	0.04	0.10	0.20	...	0.08	...	0.71	1.01	...
		Ramchandrapur	0.20	0.14	...	...	0.18	...	0.20	1.20	0.25	...	...	...	0.15	0.50	0.13	...	...	1.14	0.20	...
		Nasirabad	0.15	...	0.25	...	...	...	0.32	...	...	...	0.16	...	...	0.25	0.25	0.60	0.65	...	...	...
Dacca	Tippera	Bandkandi	...	...	0.15	...	1.72	0.38	0.18	...	...	...	0.26	...	0.40	...	...	1.26	1.26	0.12	...	...
		Nasba	...	0.10	...	0.25	...	0.60	0.05	0.40	...	...	...	...	0.06	...	...	...	0.82	1.84	...	...
		Lakman	0.11	0.14	0.66	...	0.50	...	0.60	2.09	0.24	0.25	...	0.11	0.27	0.10	0.11	...	0.07	0.62	2.61	0.22
		Noakhali	0.44	0.20	6.66	0.16	0.02	0.20	0.54	2.06	0.15	0.12	0.06	1.22	1.40	0.08	1.18	...	0.44	1.02	0.81	...
		Rani	0.25	...	1.66	0.17	0.22	...	0.75	2.22	6.22	1.70	...	0.03	0.11	0.32	...	...	...	1.08	1.22	...
Dacca	Chittagong	Harishpur	1.06	0.03	2.28	0.24	0.08	0.28	...	0.33	0.15	0.61	...	0.30	0.31	0.40	0.18	0.22	0.09	0.40	1.12	...
		Ramganj	...	1.48	...	0.20	0.24	0.40	0.06	0.23	...	...	0.88	0.20	0.45	0.30	...	0.44	2.85	1.21	1.12	...
		Chhannanaya	0.22	...	2.08	0.15	0.18	...	2.40	1.55	0.55	0.44	...	...	0.40	...	...	...	...	...	1.86	0.22
		Hatiya	0.91	2.15	2.28	0.05	0.03	0.14	0.67	0.22	0.63											



BENGAL FOR THE MONTH OF AUGUST 1919—*cond.*

11	12	13	14	15	16	17	18	19	20	21	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Excess rainfall during the month.	Total rainfall from 1st June up to 1st August 1919.	Normal rainfall from 1st June up to 1st August.	Station.	DISTRICT.	DIVISION.
14	...	0.15	0.01	...	1.45	2.45	2.70	0.34	1.85	...	19	14.7	19.19	10.64	8.99	55.32	31.69	Malda.	Malda	RAJSHAH.
15	...	0.06	0.05	...	0.11	0.31	2.39	0.37	0.95	...	13	12.2	7.67	12.66	2.39	25.72	27.95	Chanchal.	Malda	RAJSHAH.
16	...	...	1.12	...	0.58	0.95	2.75	0.48	0.23	...	18	15.1	17.16	13.45	2.70	59.18	59.00	Chanchal.	Malda	RAJSHAH.
17	...	...	...	...	0.09	1.05	2.25	0.04	0.59	...	15	15.7	14.62	10.15	2.52	41.83	31.65	Sibganj.	Malda	RAJSHAH.
18	...	...	...	...	0.71	0.95	...	...	0.98	...	15	15.7	9.92	10.26	1.92	...	31.65	Gomastapur.	Malda	RAJSHAH.
19	0.57	0.22	...	...	0.49	...	...	...	2.53	0.80	14	15.7	15.11	10.67	2.48	44.83	32.65	Nawabganj.	Malda	RAJSHAH.
20	0.09	0.54	0.18	0.22	0.59	2.35	0.41	1.93	0.42	0.04	15	15.1	12.17	12.75	2.26	46.80	41.81	Munshiganj.	Dacca	RAJSHAH.
21	0.01	0.29	0.91	...	0.26	1.22	0.52	0.53	0.04	0.04	19	17.5	10.79	12.95	1.49	34.64	29.49	Dacca.	Dacca	RAJSHAH.
22	0.20	0.20	0.10	...	0.28	0.50	0.18	0.60	0.24	0.03	18	12.7	8.53	11.21	1.10	28.15	41.11	Nawabganj.	Dacca	RAJSHAH.
23	0.04	0.25	0.12	0.02	0.45	2.23	0.81	0.04	2.37	0.07	17	18.4	14.29	12.37	2.38	42.75	40.94	Narayanganj.	Dacca	RAJSHAH.
24	...	0.67	0.06	0.04	1.21	1.17	0.61	0.09	...	0.15	16	14.8	10.31	11.64	1.90	37.68	38.84	Narayanganj.	Dacca	RAJSHAH.
25	...	0.42	0.15	...	0.07	0.80	0.56	1.41	0.20	0.05	19	16.6	8.80	11.58	1.31	24.48	24.60	Manikganj.	Dacca	RAJSHAH.
26	...	0.20	0.24	...	0.15	0.81	0.52	1.55	0.02	0.11	18	17.4	9.50	14.00	1.53	22.71	41.23	Joydebpur.	Dacca	RAJSHAH.
27	...	0.20	0.20	...	0.20	0.60	0.25	0.02	...	0.15	13	18.0	4.48	13.68	0.60	20.21	42.22	Kapasia.	Dacca	RAJSHAH.
28	...	0.56	1.47	0.21	2.27	1.22	1.41	0.06	...	5.12	10	17.1	25.91	14.89	0.66	76.89	47.44	Kimhorganj.	Mymensingh	RAJSHAH.
29	...	2.80	0.15	...	0.16	2.62	...	0.10	...	...	14	14.6	10.62	11.02	2.80	41.82	54.23	Atla (Tungab.)	Mymensingh	RAJSHAH.
30	...	...	0.05	...	0.08	2.40	1.55	...	0.20	...	13	16.4	7.82	13.45	2.60	...	41.35	Sarishbari.	Mymensingh	RAJSHAH.
31	...	0.91	0.60	0.02	0.45	0.60	0.16	0.06	0.35	0.04	19	19.2	9.20	15.36	2.21	42.64	60.58	Mymensingh.	Mymensingh	RAJSHAH.
32	...	0.25	0.02	0.02	0.20	1.19	0.22	...	0.02	0.03	13	16.9	7.24	12.70	1.19	39.79	62.73	Jamulpur.	Mymensingh	RAJSHAH.
33	...	0.40	0.25	0.10	0.20	0.20	0.72	0.14	0.18	0.22	20	21.8	10.95	33.75	2.25	52.20	64.22	Netrokona.	Mymensingh	RAJSHAH.
34	...	0.20	0.04	...	...	1.02	4.00	0.21	...	0.16	13	14.7	9.57	13.49	4.00	29.00	26.66	Pingla.	Mymensingh	RAJSHAH.
35	...	...	0.52	0.16	1.16	1.77	1.44	0.22	0.11	0.30	21	21.8	16.61	20.08	3.08	105.81	87.21	Dunapur.	Mymensingh	RAJSHAH.
36	...	0.28	...	...	...	0.72	0.11	0.07	...	0.45	13	17.7	4.25	16.68	0.72	22.07	49.92	Sherpur (Tawa).	Mymensingh	RAJSHAH.
37	...	...	...	...	1.05	0.22	...	...	...	0.48	11	14.5	9.45	12.80	1.80	44.20	43.89	Dewanganj.	Dacca	RAJSHAH.
38	0.09	0.10	...	...	0.02	0.22	0.16	0.11	...	...	10	19.7	7.55	30.07	2.75	47.22	61.08	Nalitabar.	Dacca	RAJSHAH.
39	...	0.05	0.14	...	0.12	0.22	0.22	2.96	0.22	...	18	16.6	12.50	11.85	2.04	49.61	37.07	Madaripur	Faridpur	RAJSHAH.
40	...	0.41	0.02	...	2.18	1.52	0.22	2.78	0.11	0.02	20	26.7	12.52	12.17	2.75	29.96	37.99	Faridpur.	Faridpur	RAJSHAH.
41	...	0.06	0.16	0.02	0.20	2.67	0.60	0.27	0.06	0.11	22	15.1	12.06	10.66	2.27	58.24	54.01	Rajbari	Faridpur	RAJSHAH.
42	...	1.01	0.12	...	0.19	1.10	0.58	2.27	0.28	0.01	21	18.0	11.69	14.12	2.27	40.99	41.25	(Gondaloo).	Faridpur	RAJSHAH.
43	...	0.05	0.02	...	0.22	1.07	0.41	2.62	0.14	0.05	19	18.4	12.26	15.99	2.62	44.43	42.28	Haridaspur.	Faridpur	RAJSHAH.
44	0.04	0.25	0.05	0.02	1.05	1.75	2.02	2.25	0.78	0.22	20	16.5	20.21	12.79	2.25	64.22	66.01	Takhat.	Faridpur	RAJSHAH.
45	...	0.25	0.07	...	0.20	1.14	0.22	2.25	0.06	...	19	16.7	12.74	11.79	2.25	43.29	28.77	Bhanga.	Faridpur	RAJSHAH.
46	...	0.12	0.15	0.05	0.71	0.20	0.71	2.11	0.03	0.07	20	17.6	20.05	12.03	7.11	47.10	40.18	Pangsa.	Faridpur	RAJSHAH.
47	...	1.05	...	...	0.22	0.12	0.21	2.00	0.21	...	17	17.2	10.65	12.03	2.09	30.70	27.49	Bullkanthi.	Faridpur	RAJSHAH.
48	...	...	0.19	...	1.21	0.92	0.42	2.82	0.26	...	16	20.6	16.70	17.22	2.82	57.10	52.90	Bhusna.	Faridpur	RAJSHAH.
49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Paloog.	Faridpur	RAJSHAH.
50	1.09	0.10	...	...	0.56	2.21	1.08	2.75	0.28	0.20	21	21.4	26.49	18.75	2.20	55.12	62.10	Fatakhelli	Bakerganj	RAJSHAH.
51	0.12	0.17	...	0.46	2.28	0.27	1.17	0.92	0.20	0.41	24	21.0	12.15	12.07	2.28	44.78	61.24	Barguna.	Bakerganj	RAJSHAH.
52	...	...	...	...	0.12	1.10	0.55	2.85	0.20	...	22	18.8	14.57	12.57	2.25	49.51	44.86	Projpur.	Bakerganj	RAJSHAH.
53	...	0.02	0.16	...	0.22	1.78	0.12	0.57	0.06	0.09	19	19.2	12.54	12.23	2.11	56.09	48.77	Barisal.	Bakerganj	RAJSHAH.
54	...	0.12	0.10	...	1.27	0.75	0.26	0.65	0.15	0.02	19	17.7	11.90	12.81	1.92	52.44	40.44	Gonuradi.	Bakerganj	RAJSHAH.
55	...	0.24	0.12	...	2.26	2.25	0.26	0.46	0.24	0.26	25	21.4	21.42	16.72	2.25	65.23	52.82	Bhola.	Bakerganj	RAJSHAH.
56	...	0.20	0.12	...	0.20	1.25	1.22	1.96	0.22	0.12	22	21.2	22.52	18.72	2.22	68.19	59.16	Daulatkhana.	Bakerganj	RAJSHAH.
57	...	0.51	1.05	...	2.29	2.44	2.96	2.46	0.16	1.15	19	21.8	22.42	18.10	2.96	94.53	54.06	Bauphal.	Bakerganj	RAJSHAH.
58	0.26	0.12	0.02	...	1.42	2.10	2.45	1.56	0.09	0.05	26	20.9	29.59	28.22	4.80	112.28	94.54	Ooi's Bazar	Chittagong	CHITTAGONG.
59	...	0.12	0.40	0.70	0.04	0.91	0.57	0.22	0.24	0.02	21	17.6	20.49	20.89	4.75	87.16	68.24	Chittagong.	Chittagong	CHITTAGONG.
60	...	0.22	0.05	0.20	...	0.98	1.90	2.97	1.22	0.22	25	18.8	22.42	24.42	4.75	101.75	76.10	Kutubdia.	Chittagong	CHITTAGONG.
61	...	0.24	0.22	1.45	...	1.55	1.40	...	0.22	0.20	22	19.8	19.67	19.47	4.00	74.62	62.29	Satkania.	Chittagong	CHITTAGONG.
62	...	0.24	2.29	...	0.75	0.25	0.42	...	0.22	0.05	20	21.2	14.06	12.49	2.69	61.26	56.53	Kodala.	Chittagong	CHITTAGONG.
63	...	0.28	0.50	...	1.05	1.22	...	0.18	...	1.22	20	19.2	22.91	25.41	4.60	82.25	72.74	Mirraol.	Chittagong	CHITTAGONG.
64	3.26	0.65	0.20	0.02	1.02	2.20	0.40	0.40	...	0.15	20	17.6	15.12	16.67	2.26	52.45	50.27	Cumilla.	Tippera	CHITTAGONG.
65	0.05	0.22	0.15	0.20	1.01	2.04	0.20	0.15	2.09	0.04	22	20.4	14.59	16.32	2.08	47.35	46.16	Chandpur.	Tippera	CHITTAGONG.
66	...	0.28	0.12	...	1.79	0.84	0.28	0.02	0.20	0.56	17	18.8	12.61	12.22	2.12	21.76	29.22	Brachmanbaria.	Tippera	CHITTAGONG.
67	1.10	0.14	...	...	1.81	1.72	...	...	0.10	0.16	19	12.4	9.57	13.27	1.41	28.63	42.33	Ramchandrapur.	Tippera	CHITTAGONG.
68	...	2.62	...	...	2.20	0.70	...	...	2.45	...	12	14.2	12.09	11.54	2.20	32.90	29.99	Nasirpur.	Tippera	CHITTAGONG.
69	0.22	0.10	0.02	...	1.88	0.52	0.18	0.22	0.20	0.25	19	16.4	12.54	12.10	1.72	42.32	29.63	Daudkandi.	Tippera	CHITTAGONG.
70	0.44	1.40	...	...	1.12	0.62	...	...	0.22	...	14	15.6	9.19	11.85	1.68	32.92	29.27	Kasba.	Tippera	CHITTAGONG.
71	0.18	1.58	0.09	...	0.04	2.07	0.72	0.24	...	0.08	20	17.6	14.84	17.79	2.07	57.40	52.91	Lakham.	Tippera	CHITTAGONG.
72	...	0.42	0.16	...	0.10	2.20	1.54	0.08	2.05	0.10	24	22.1	26.21	26.12	0.66	76.00	74.17	Noakhali.	Noakhali	CHITTAGONG.
73	...	1.22	0.12	...	1.22	0.22	0.42	...	0.25	...	19	21.6	14.45	24.60	2.22	66.62	71.96	Feni.	Noakhali	CHITTAGONG.
74	1.76	0.29	0.22	...	0.21	1.44	0.21	0.26	1.10	...	24	21.4	21.59	27.17	2.22	84.24	71.27	Harishpur.	Noakhali	CHITTAGONG.
75	...	0.28	...	...	2.50	0.62	0.22	2.62	1.02	0.42	21	19.9	19.59	17.90	2.28	69.67	51.25	Ranganj.	Noakhali	CHITTAGONG.
76	...	1.06	...	...	1.60	0.22	0.12	0.22	0.15	0.22	16	19.9	14.21	22.06	2.40	67.09	67.65	Chhagalpaya.	Noakhali	CHITTAGONG.
77	0.17	0.10	0.18	...	1.69	2.47	0.22	2.08	1.75	0.12	29	24.0	22.75	25.94	2.47	99.28	75.46	Hatiya.	Noakhali	CHITTAGONG.
78	...	0.29	0.08	...	0.62	2.79	2.02	0.65	2.80	1.05	25	22.2	24.02	19.66	2.47	78.51	60.16	Lakshmipur.	Noakhali	CHITTAGONG.
79	...	0.60	1.79	...	0.70	1.04	1.05	0.17	1.02	2.71	22	21.8	21.05	17.46	2.72	55.54	54.14	Rangmati.	Chittagong Hill Tracts	CHITTAGONG.
80	...	0.40	0.28	0.20	...	0.22	0.22	0.12	0.06	...										



*Vital Statistics of the Towns with a population of 10,000*

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (exclud- ing still- births).	Still-born number registered.	Cholera.	Small pox.	Plague.
Burdwan ...	1	Burdwan ...	20,527	15,394	35,921	32	...	5	1	...
	2	Kaniganj ...	8,417	7,080	15,497	19	...	6	...	...
	3	Asansol ...	12,486	9,433	21,919	32	...	12	...	...
Bankura ...	4	Bankura ...	12,156	11,297	23,453	38	...	19	...	...
	5	Vishnupur ...	10,025	10,453	20,478	27	...	14	...	...
	6	Sonamukhi ...	6,254	7,021	13,275	5	...	4	...	...
Midnapore ...	7	Midnapore ...	17,577	15,163	32,740	42	...	3	...	...
	8	Ghatal ...	6,216	5,848	12,064	15	4	...	2	...
Hooghly ...	9	Hooghly and Chin- sura,	15,817	13,099	28,916	46	...	...	...	...
	10	Serampore ...	19,639	12,439	32,078	31	...	6	...	...
	11	Rishra Koubagore...	10,724	6,792	17,516	24	...	...	1	...
	12	Baidyabati ...	Figures not available			11	...	...	...	...
	13	Bhadreswar ...				11	...	...	1	...
Howrah ...	14	Champdani ...				10	...	...	...	...
	15	Howrah ...	114,829	64,560	179,389	293	...	17	26	...
	16	Bally ...	14,217	8,177	22,394	27	1	1	12	...
	17	Cossipore-Chitpur ...	30,793	17,385	48,178	67	4	11	5	...
	18	Maniktala ...	31,735	22,032	53,767	42	9	9	7	...
24-Parganas	19	South Suburban ...	17,683	13,850	31,533	34	2	2	...	...
	20	Tollygunge ...	11,183	7,250	18,433	25	1	...	1	...
	21	Garden Reach ...	27,665	17,630	45,295	56	2	6	2	...
	22	Budge-Budge ...	11,529	6,453	17,982	25	...	...	...	...
	23	Baranagar ...	14,982	10,913	25,895	32	4	2	...	...
	24	Kamarhati ...	11,243	6,772	18,015	26	...	8	1	...
	25	Rajpur ...	5,762	5,845	11,607	23	...	...	1	...
	26	South Dum-Dum ...	7,760	5,114	12,874	19	...	2	...	...
	27	Barrackpore ...	11,357	6,944	18,301	12	...	...	1	...
	28	Panihati ...	6,339	4,779	11,118	8	...	...	...	...
	29	North Barrackpore...	9,780	6,340	16,120	13	...	1	1	...
	30	Tittagarh ...	31,225	13,946	45,171	49	3	2	2	...
	31	Garulia ...	7,876	3,704	11,580	3	...	4	3	...
	32	Naihati ...	11,665	6,534	18,219	16	...	8	...	...
	33	Bhatpara ...	34,739	15,675	50,414	50	1	4	3	...
	34	Basirhat ...	9,517	8,814	18,331	23	...	...	...	...
	35	Baduria ...	7,058	6,622	13,680	23	...	...	...	...
Calcutta ...	36	Calcutta ...	607,674	288,393	896,067	1,305	109	66	80	9
Nadia ...	37	Krishnagar ...	11,767	11,708	23,475	19	...	...	...	...
	38	Nadia or Nabadwip	5,821	6,659	12,480	9	...	...	...	...
	39	Santipur ...	12,186	14,517	26,703	43	...	...	...	...



and over, of Bengal, for the month of July 1918.

REGISTERED.											No.	Towns.
Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total of all causes.			Total of corresponding month of previous year.				
					Male.	Female.	Total.	Male.	Female.	Total.		
38	12	9	8	18	40	41	81	47	23	70	1	Burdwan.
11	8	2	...	11	22	11	33	15	29	44	2	Raniganj.
86	9	2	3	5	42	25	67	39	26	65	3	Asansol.
18	7	1	...	12	27	30	57	33	26	59	4	Bankura.
19	6	...	1	7	25	22	47	20	13	33	5	Vishnupur.
18	8	...	...	2	18	14	32	12	10	22	6	Sonamukhi.
19	8	12	...	9	23	28	51	22	13	35	7	Midnapore.
15	8	...	...	1	8	13	21	9	10	19	8	Ghatal.
16	9	15	...	14	28	26	54	51	29	80	9	Hooghly and Chinsura.
23	17	14	...	4	36	28	64	33	30	63	10	Serampore.
8	3	3	1	5	11	10	21	20	13	33	11	Rishra Koonagore.
19	4	2	2	4	12	19	31	19	19	38	12	Baidyabati.
7	2	...	...	5	6	9	15	7	6	13	13	Bhadreswar.
20	3	1	...	1	10	15	25	10	7	17	14	Chandani.
218	62	162	12	120	324	293	617	369	259	628	15	Howrah.
25	2	5	...	1	27	19	46	21	15	36	16	Bally.
54	5	24	7	31	76	61	137	104	78	182	17	Cossipore-Chitpur.
56	20	52	...	58	109	93	202	117	82	199	18	Maniktala.
30	4	10	2	4	31	21	52	37	28	65	19	South Suburban.
14	1	3	...	...	12	7	19	17	16	33	20	Tollygunge.
34	13	17	...	30	63	39	102	63	35	98	21	Garden Reach.
8	2	5	...	2	15	2	17	32	10	42	22	Budge-Budge.
37	23	7	1	13	46	37	83	53	34	87	23	Baranagore.
33	8	1	...	7	40	18	58	35	5	40	24	Kamarhati.
24	...	2	...	2	15	14	29	20	12	32	25	Rajpur.
7	2	2	1	3	10	7	17	22	10	32	26	South Dum-Dum.
14	4	5	...	1	17	8	25	8	6	14	27	Barrackpore.
9	1	1	...	1	9	3	12	10	16	26	28	Panhati.
11	1	11	1	2	11	17	28	17	17	34	29	North Barrackpore.
144	9	6	...	17	105	75	180	119	62	181	30	Titagarh.
1	...	1	1	...	4	6	10	6	4	10	31	Garulia.
17	2	3	1	6	18	19	37	16	5	21	32	Naihati.
24	...	1	...	10	28	16	42	49	24	73	33	Bhatpara.
21	1	1	2	...	13	12	25	21	18	39	34	Basirhat.
8	1	3	...	1	8	5	13	5	6	11	35	Baduria.
480	286	672	42	948	1,476	1,129	2,605	1,853	1,170	3,023	36	Calcutta.
8	1	1	...	5	6	9	15	19	15	34	37	Krishnagar.
16	1	1	1	1	13	7	20	12	11	23	38	Nadia or Nabadwip.
26	3	6	2	11	25	23	48	32	23	55	39	Santipur.



## Vital Statistics of the Towns with a population of 10,000

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births.)	Still-born number registered.	Cholera.	Small- pox.	Plague.
Murshidabad	40	Berhampore ...	14,302	11,841	26,143	33	1	...	...	...
	41	Murshidabad ...	6,259	6,410	12,669	22	...	...	...	...
	42	Ajingtonj ...	6,725	5,602	12,327	12	...	1	2	...
	43	Kandi ...	6,212	6,426	12,638	20	...	...	...	...
	44	Jangipur ...	5,493	5,915	11,408	24	...	1	...	...
Khulna	45	Khulna ...	7,983	5,013	12,996	13	1	6	...	...
	46	Satkhira ...	5,802	5,100	10,902	6	...	...	...	...
Rajshahi	47	Rampur-Boalia ...	13,057	10,349	23,406	67	1	3	...	...
Dinajpur	48	Dinajpur ...	9,648	6,297	15,945	12	...	...	4	...
Jalpaiguri	49	Jalpaiguri ...	7,547	4,218	11,765	18	...	19	...	...
Darjeeling	50	Darjeeling ...	11,631	7,374	19,005	27	1	1	...	...
Rangpur	51	Rangpur ...	10,509	5,920	16,429	12	...	...	...	...
Pabna	52	Pabna ...	10,056	9,218	19,274	13	...	...	4	...
	53	Sirajganj ...	13,236	11,541	24,777	10	1	10	5	...
Malda	54	English Bazar ...	7,697	6,625	14,322	26	...	...	8	...
	55	Nawabganj ...	11,122	12,200	23,322	26	...	...	...	...
Dacca	56	Dacca ...	63,091	45,460	108,551	155	4	2	9	...
	57	Narayanganj ...	18,738	9,138	27,876	40	1	...	1	...
Mymensingh	58	Mymensingh ...	13,462	6,391	19,853	11	...	...	...	...
	59	Netrakona ...	8,018	5,722	13,740	8	1	3	2	...
	60	Jamalpur ...	11,728	9,381	21,109	27	...	9	5	...
	61	Sherpur ...	8,516	7,075	15,591	33	2	1	...	...
	62	Kishoreganj ...	9,508	8,518	18,026	25	...	3	...	...
	63	Bajitpur ...	5,447	5,386	10,833	19	...	...	2	...
	64	Tangail ...	8,493	7,869	16,362	9	...	...	...	...
Faridpur	65	Faridpur ...	8,017	5,114	13,131	15	...	...	...	...
	66	Madaripur ...	10,549	8,524	19,073	28	...	2	...	...
Bakarganj	67	Barisal ...	15,488	6,985	22,473	25	...	...	...	...
	68	Pirojpur ...	6,523	5,473	11,996	18	...	3	...	...
Chittagong	69	Chittagong ...	18,779	9,987	28,766	94	3	1	...	...
Tippora	70	Comilla ...	13,706	8,986	22,692	22	...	12	...	...
	71	Brahmanbaria ...	11,671	10,624	22,295	26	...	1	6	...
	72	Chandpur ...	9,062	3,655	12,717	12	...	1	...	...
Total of month...			...	...	2,618,159	3,498	156	313	198	9
Total of corresponding month of previous year.			...	...	...	3,839	157	197	59	18
Increase + or decrease —			...	...	...	-346	-1	+116	+139	-9

## REMARKS—

1. The above table is compiled from returns collected by the Municipalities and submitted to this office by the Civil Surgeons. Taken as a whole, the statistics are obviously incomplete.
2. The vital statistics of Municipalities with a population of less than 10,000 have been excluded from this statement and incorporated in the statement of the Registrar-General.
3. The birth and death ratios per 1,000 per annum have been omitted from this statement according to the Government of India, Education Department, Circular No. 10,000, dated 1918.

CALCUTTA,  
The 18th September 1919.



and over, of Bengal, for the month of July 1919—*conold.*

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total of all causes.			Total of corresponding month of previous year.			No.	Town.
					Male.	Female.	Total.	Male.	Female.	Total.		
11	3	14	2	12	27	15	42	24	21	45	40	Berhampore.
16	...	1	...	...	9	8	17	18	19	37	41	Murshidabad.
15	1	1	...	5	10	15	25	10	10	20	42	Ajimganj.
6	...	2	1	2	8	3	11	8	6	14	43	Kandi.
19	...	1	...	...	18	3	21	8	8	16	44	Jaunpur.
30	1	2	5	3	27	20	47	14	16	30	54	Khulna.
3	...	3	1	...	4	3	7	6	5	11	46	Satkhira.
16	1	...	2	8	15	15	30	14	13	27	47	Rampur-Boalia.
3	1	...	2	7	11	6	17	11	7	18	48	Dinajpur.
6	5	5	...	10	29	16	45	13	7	20	49	Jalpaiguri
8	3	8	...	18	22	16	38	15	18	33	50	Darjeeling
10	4	1	1	1	13	4	17	25	16	41	51	Rangpur.
4	...	2	...	5	10	5	15	5	2	7	52	Pabna.
9	1	1	...	2	18	10	28	5	1	6	53	Sirajganj.
9	5	3	3	4	21	11	32	19	13	32	54	English-Bazar.
4	1	...	1	1	6	1	7	12	7	19	55	Nawabganj.
141	23	16	7	78	155	121	276	191	107	298	56	Daoca.
15	...	2	...	27	27	18	45	22	14	36	57	Narayanganj.
15	2	1	...	9	18	9	27	16	4	20	58	Mymensingh.
5	1	...	...	2	5	8	13	2	3	5	59	Netrokona.
33	2	3	...	8	34	26	60	17	20	37	60	Jamalpur.
15	...	1	...	9	16	10	26	11	6	17	61	Sherpur.
12	11	2	...	5	15	18	33	5	7	12	62	Kishoreganj.
5	2	...	...	6	4	11	15	6	1	7	63	Bajitpur.
7	...	...	1	4	9	3	12	13	6	19	64	Tangail.
15	2	2	...	3	13	9	22	10	9	19	65	Faridpur.
11	5	1	1	14	14	20	34	15	12	27	66	Madaripur.
9	4	...	...	3	11	5	16	19	9	28	67	Barisal.
10	...	1	2	5	14	7	21	5	3	8	68	Pirojpur.
21	2	...	...	15	20	19	39	65	43	108	69	Chittagong.
11	2	...	1	8	19	15	34	20	12	32	70	Comilla.
20	...	2	5	16	26	24	50	16	17	33	71	Brahmaubaria.
5	3	...	2	3	8	6	14	10	4	14	72	Chandpur.
2,100	631	1,138	120	1,665	3,463	2,711	6,174	...	...	...		
2,492	595	1,491	115	1,738	4,044	2,661	6,705	4,044	2,661	6,705		
-392	+36	-353	+5	-73	-581	+50	-531	...	...	...		

whole the table possesses a relative value, although the figures for individual towns probably only approximate to the actual in a proportion reported in the returns for districts—vide Bengal Government, Municipal Department, letter No. 1108an., dated the 8th February 1918. Municipal Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	12th Sept. 1919	26.27	101.83	128.10	...	0.40	122.30	122.30	.
	... { Rajmahal ...	12th "	28.25	56.319	84.569	0.05	...	81.01	80.76	.
	... { Goalundo ...	12th "	23.30	...	...	0.30	...	20.00	23.80	.
Brahmaputra	Gauhati ...	12th "	24.10	148.76	172.86	1.10	...	170.16	173.06	.
	... { Serajganj ...	12th "	37.40	...	...	0.70	...	...	...	.
	... { Dibrugarh ...	12th "	18.90	...	...	...	0.60	...	...	.
Meghna	Bhairab Bazar	12th "	15.17	1.61	16.78	Steady		...	...	.
	... { Chandpur ...	12th "	12.50	1.61	14.11	0.50	...	...	...	.
	... { Fenchuganj ...	12th "	24.60	...	...	0.20	...	...	...	.
Dhaleswari	... Sabbar ...	12th "	26.70	- 8.62	18.08	0.30	...	...	...	.
Bhagirathi	... Swarupganj ...	12th "	27.84	1.509	29.349	0.15	...	23.23	28.44	.
Danodar	... Edilpur ...	12th "	11.58	92.58	104.16	0.08	...	...	...	.
Lakhya	... Narayanganj	12th "	21.39	- 5.59	15.80	0.14	...	...	...	.
Madaripur Bil Route	... Takerhat ...	12th "	13.10	- 0.599	12.501	0.10	...	...	...	.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	13th Sept. 1919	6 A.M. ...	25.57'	101.83'	127.40'	...	0.70'	122.30'	121.10'	
	13th "	6 "	28.25'	56.319'	84.569'	Steady		81.11'	80.46'	
	13th "	8 hours ...	23.40'	...	...	0.10'	...	20.80'	23.70'	
Brahmaputra	13th "	8 A.M.	24.30'	148.76'	173.06'	0.20'	...	170.36'	172.86'	
	13th "	12 hours ...	37.80'	...	...	0.40'	...	...	...	
	13th "	8 A.M. ...	18.10'	...	...	...	0.80'	...	...	
Meghna	13th "	6 hours ...	15.33'	1.61'	16.94'	0.16'	...	...	...	
	13th "	8 "	12.50'	1.61'	14.11'	Steady		...	...	
	13th "	7 A.M. ...	24.70'	...	...	0.10'	...	...	...	
Dhaleswari	13th "	7 "	27.10'	-8.62'	18.48'	0.40'	...	...	...	
	13th "	6 "	28.01'	1.509'	29.579'	0.23'	...	23.43'	28.20'	
Damodar	13th "	6 "	10.83'	92.58'	103.41'	...	0.75'	...	...	
	13th "	...	21.50'	-5.59'	15.91'	0.11'	...	...	...	
Madaripur Bil Route	13th "	6 A.M. ...	13.20'	-0.599'	12.601'	0.10'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.			HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.		
Ganges	Monghyr ...	14th Sept. 1919	6 A.M....	24.77'	101.83'	126.60'	...	0.80'	122.00'	120.90'	
	... { Rajmahal ...	14th " " "	6 " "	27.85'	56.319'	84.169'	...	0.40'	81.11'	79.76'	
	... { Goalundo ...	14th " " "	8 hours ...	23.60'	...	...	0.20'	...	20.90'	23.50'	
Brahmaputra	Gauhati ...	14th " " "	8 A.M....	24.10'	148.76'	172.86'	...	0.20'	170.56'	174.46'	
	... { Seraiganj ...	14th " " "	6 hours ...	38.00'	...	...	0.20'	...	...	...	
	... { Dibrugarh ...	14th " " "	8 A.M....	17.50'	...	...	...	0.60'	...	...	
Meghna	Blairab Bazar ...	14th " " "	6 hours ...	15.50'	1.61'	17.11'	0.17'	...	...	...	
	... { Chandpur ...	14th " " "	8.30 hours	12.42'	1.61'	14.03'	...	0.08'	...	...	
	... { Fenchuganj ...	14th " " "	7 A.M....	24.75'	...	...	0.05'	...	...	...	
Dhaleswari	Sabhar ...	14th " " "	7 " "	27.60'	- 8.62'	18.98'	0.50'	...	...	...	
Bhagirathi	... Swarupganj ...	14th " " "	6 " "	28.29'	1.509'	29.799'	0.22'	...	23.60'	28.00'	
Damodar	... Edilpur ...	14th " " "	6 " "	9.42'	92.58'	102.00'	...	1.41'	...	...	
Lakhya	... Narayanganj	14th " " "	" "	21.54'	- 5.59'	15.95'	0.04'	...	...	...	
Madaripur Bil Route	Takerhat ...	14th " " "	6 A.M....	13.30'	- 0.599'	12.701'	0.10'	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	15th Sept. 1919	6 A.M. ...	24.17'	101.83'	126.00'	...	0.60'	122.00'	120.70'	
	15th "	6 " ...	27.35'	56.319'	83.669'	...	0.50'	80.86'	79.41'	
	15th "	8 hours ...	23.70'	...	...	0.10'	...	21.30'	23.30'	
Brahmaputra	15th "	8 A.M. ...	23.90'	148.76'	172.66'	...	0.20'	168.86'	172.66'	
	15th "	12 hours ...	38.10'	...	...	0.10'	...	...	...	
	15th "	8 A.M. ...	17.10'	...	...	...	0.40'	...	...	
Meghna	15th "	6 hours ...	15.58'	1.61'	17.19'	0.08'	...	...	...	
	15th "	9 " ...	11.75'	1.61'	13.36'	...	0.67'	...	...	
	15th "	7 A.M. ...	24.80'	...	...	0.05'	...	...	...	
Dhaleswari	15th "	7 " ...	27.90'	-8.62'	19.28'	0.30'	...	...	...	
	15th "	6 " ...	28.43'	1.509'	29.939'	0.14'	...	24.20'	27.88'	
Damodar	15th "	6 " ...	8.92'	92.58'	101.50'	...	0.50'	...	...	
	15th "	...	21.54'	-5.59'	15.95'	Steady		...	...	
Lakhya	15th "	...	13.30'	-0.599'	12.701'	Steady		...	...	
Madaripur Bil Route	15th "	6 A.M. ...	13.30'	-0.599'	12.701'	Steady		...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	16th Sept. 1919	6 A.M.	23.27'	101.83'	125.10'	...	0.90'	121.70'	120.00'	
	16th "	6 "	26.70'	56.319'	83.019'	...	0.65'	80.96'	79.06'	
	16th "	8 hours	23.70'	...	...	...	Steady	21.20'	23.10'	
Brahmaputra	16th "	8 A.M.	23.40'	148.76'	172.16'	...	0.50'	168.26'	172.86'	
	16th "	12 hours	38.20'	...	...	0.10'	...	...	...	
	16th "	8 A.M.	16.60'	...	...	...	0.50'	...	...	
Meghna	16th "	6 hours	15.62'	1.61'	17.23'	0.04'	...	...	...	
	16th "	9.30 "	11.75'	1.61'	13.36'	...	Steady	...	...	
	16th "	7 A.M.	24.80'	...	...	...	Steady	...	...	
Dhalewari	16th "	7 "	28.10'	-8.62'	19.48'	0.20'	...	...	...	
	16th "	6 "	28.52'	1.509'	30.029'	0.09'	...	24.63'	27.82'	
Bhagirathi	16th "	6 "	8.50'	92.58'	101.08'	...	0.42'	...	...	
Damodar	16th "	...	21.54'	-5.59'	15.95'	...	Steady	...	...	
Lakhya	16th "	6 A.M.	13.30'	-0.599'	12.701'	...	Steady	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	17th Sept. 1919	6 A.M.	22.37'	101.83'	124.20'	...	0.90'	121.60'	119.30'
	... Rajmahal ...	17th "	6 "	25.95'	56.319'	82.269'	...	0.75'	80.86'	78.61'
	... Goalundo ...	17th "	8 hours	23.60'	...	...	...	0.10'	21.30'	22.80'
Brahmaputra	Gauhati ...	17th "	8 A.M.	22.90'	148.76'	171.66'	...	0.50'	167.96'	173.16'
	... Serajganj ...	17th "	12 hours	38.00'	...	...	...	0.20'	...	...
	... Dibrugarh ...	17th "	8 A.M.	16.30'	...	...	...	0.30'	...	...
Meghna	Bhairab Bazar ...	17th "	6 hours	15.67'	1.61'	17.28'	0.05'	...	...	...
	... Chandpur ...	17th "	10 "	11.75'	1.61'	13.36'	Steady	...	...	...
	... Fenchuganj ...	17th "	7 A.M.	24.75'	...	...	...	0.05'	...	...
Dhaleswari	... Sabhar ...	17th "	7 "	28.20'	- 8.62'	19.58'	0.10'	...	...	...
Bhagirathi	... Swarupganj ...	17th "	6 "	28.52'	1.509'	30.029'	Steady	24.86'	27.80'	...
Damodar	... Edilpur ...	17th "	6 "	8.08'	92.58'	100.66'	...	0.42'	...	...
Lakhya	... Narayanganj ...	17th "	...	21.46'	- 5.59'	15.87'	...	0.08'	...	...
Madaripur Bil Route	... Takerhat ...	17th "	6 A.M.	13.20'	- 0.599'	12.601'	...	0.10'	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 18th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	18th Sept. 1919	6 A.M. ...	21.67'	101.83'	123.50'	...	0.70'	121.10'	118.30'
	Rajmahal ...	18th "	6 "	25.00'	56.319'	81.319'	...	0.95'	80.66'	77.96'
	Goalundo ...	18th "	8 hours ...	23.40'	...	...	...	0.20'	21.10'	22.60'
Brahmaputra	Gauhati ...	18th "	8 A.M. ...	22.10'	148.76'	170.86'	...	0.80'	167.76'	173.96'
	Serajganj ...	18th "	12 hours ...	37.90'	...	...	...	0.10'	...	...
	Dibrugarh ...	18th "	8 A.M. ...	16.50'	...	...	0.20'	...	...	...
Meghna	Bhairab Bazar ...	18th "	6 hours	15.58'	1.61'	17.19'	...	0.09'	...	...
	Chandpur ...	18th "	11 "	11.25'	1.61'	12.86'	...	0.30'	...	...
	Fenchuganj ...	18th "	7 A.M. ...	24.75'	...	...	Steady	...	...	...
Dhaleswari	Sabhar ...	18th "	7 "	28.30'	-8.62'	19.68'	0.10'	...	...	...
Bhagirathi	Swarupganj ...	18th "	6 "	28.50'	1.509'	30.009'	...	0.02'	24.83'	27.76'
Danodar	Edilpur ...	18th "	6 "	9.17'	92.58'	101.75'	1.09'	...	...	...
Lakhya	Narayanganj ...	18th "	...	21.44'	-5.59'	15.85'	...	0.02'	...	...
Madaripur Bil Route	Takerhat ...	18th "	6 A.M. ...	13.20'	-0.599'	12.601'	Steady	...	...	...



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 13th September 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
7th September	8 A.M.	Zero of gauge is at mean sea-level.	61.10	59.61	B. M. on College step corrected (P. W. D.) 64.93.
8th "	8 "		61.50	59.61	
9th "	8 "		61.90	59.91	
10th "	8 "		62.25	60.11	
11th "	8 "		62.60	60.26	
12th "	8 "		62.75	60.21	
13th "	8 "		62.80	60.01	

(a) Datum corrected by adding 1.61 to the value of zero, vide Superintending Engineer's No. 2876, dated 8-33-17, dated 10th May 1919, and Bengal Government, Public Works Department, Irrigation Branch, Resolution No. 4521, dated 17th February 1919.

	Old value.	According to P. W. D. datum.
The previous year ... Highest water-level ...	66.52 on 30th August 1918 ...	61.71
Ditto ... Lowest " ...	41.70 on 21st April 1918 ...	36.89
Record ... Highest " ...	69.25 on 26th August 1879 ...	64.44
Do. ... Ditto " ...	69.08 on 9th September 1885 ...	64.27
Do. ... Ditto " ...	68.30 on 26th August 1905 ...	63.47
Do. ... Ditto " ...	68.21 on 26th August 1890 ...	63.40
Do. ... Lowest " ...	37.63 on 25th April 1884 ...	32.82
Do. ... Ditto " ...	38.13 on 14th-15th April 1893 ...	33.32
Do. ... Ditto " ...	39.02 on 21st-22nd April 1897 ...	34.21
Do. ... Ditto " ...	39.28 on 6th-7th May 1908 ...	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 13th September 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 13th September 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
7th September	7 A.M.	22.1	22.1	24.3	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
8th "	7 "	22.4	22.4	24.2	
9th "	7 "	22.7	22.7	24.0	
10th "	7 "	22.9	22.9	23.8	
11th "	7 "	23.0	23.0	23.7	
12th "	7 "	23.3	23.3	23.8	
13th "	7 "	23.4	23.4	23.7	

The previous year ... Highest water-level ...	26.2 on 1st September 1918.
Ditto ... Lowest " ...	6.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges) ... Highest " ...	26.76 on 26th August 1906.
Record (average flood in Brahmaputra and Ganges) ... Ditto " ...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges) ... Ditto " ...	26.66 on 11th to 17th and 31st August and on 1st to 3rd September 1899.
Record (H.F. in Brahmaputra only) ... Ditto " ...	25.66 on 31st July 1900.
Do. ... Lowest " ...	1.0 on 8th February 1914.
Do. ... Ditto " ...	2.42 on 13th March 1908.
Do. ... Ditto " ...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do. ... Ditto " ...	3.16 on 9th to 11th March 1885.
Do. ... Ditto " ...	3.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

FARIDPUR,  
The 14th September 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 13th September 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
7th Sept.	63.6	...	...	...	...	63.7	
8th "	63.9	...	...	...	...	64.0	
9th "	64.05	...	...	...	...	64.2	
10th "	64.25	...	...	...	...	64.4	
11th "	64.6	...	...	...	...	64.7	
12th "	64.7	...	...	...	...	64.8	
13th "	65.0	...	...	...	...	65.0	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	} Taken at high tide
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
13th "	1912	...	...	...	67.16	
31st "	1913	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	} Taken at low tide.
31st "	1918	...	...	...	69.12	
28th February	1907	...	...	...	51.06	
13th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
5th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.30	
16th "	1916	...	...	...	50.60	
8th March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 15th September 1919.

W. J. KERR,  
Executive Engr., Dacca Division.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 1, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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### LIBERALITY OF HAJI FAZIR MUHAMED TALUQDAR, OF BALIAJURI.

No. 537T.—Edn., dated Darjeeling the 20th September 1919.

From—THE HON'BLE MR. S. W. GOODE, Offg. Secy. to the Govt. of Bengal, General Department.

To—The Commissioner of the Dacca Division.

WITH reference to your letter No. 3336J., dated the 18th July 1919, I am directed to request that you will be so good as to convey the thanks of Government to Haji Fazir Muhamed Taluqdar, of Baliajuri, police-station Madarganj, in the district of Mymensingh, for his liberality and public spirit in making a donation of Rs. 20,000 for the construction and equipment of a High English School at Baliajuri, in the district of Mymensingh.



**RESOLUTION ON THE ANNUAL REPORTS BY THE PORT OFFICERS, CALCUTTA AND CHITTAGONG.**

**GOVERNMENT OF BENGAL.**

**MARINE DEPARTMENT.**

**Marine Branch.**

CALCUTTA, THE 29TH SEPTEMBER 1919.

**RESOLUTION—No. 3097 Marine.**

READ—

- (1) The Annual Report by the Port Officer, Calcutta, on the working of his Department for the year 1918-19.
- (2) The Annual Report by the Port Officer, Chittagong, on the working of his Department for the year 1918-19.

**PORT OF CALCUTTA.**

**Bengal Pilot Service.**—The total strength of the Bengal Pilot Service was 58 against the sanctioned number of 74, of whom 17 were on long leave and on deputation to military duty. There were two casualties in the service during the year: one Mate Pilot died and a Branch Pilot retired from the service.

The difficulty in the recruitment of Leadsman Apprentices continued during the year; but the situation was carefully watched and all possible steps were taken in consultation with the various interests concerned and in frequent communication with the Government of India and the Secretary of State to secure as soon as possible a reasonable number of recruits for the service. The Secretary of State was able to send out six recruits just after the close of the year and the situation was improved considerably. Now that the war is over, no difficulty is apprehended in the future recruitment of suitable candidates. As mentioned in the review of the previous year's report a scheme for a system of guaranteed minimum remuneration for the Pilots was then under consideration with a view to compensate the Pilots for the decrease in their normal earnings owing to the war. This scheme was sanctioned by the Secretary of State with effect from the 1st April 1918 and is still in force. As the trade of the port improves it is likely that the normal earnings will gradually advance beyond the guaranteed minimum. To reimburse Government for the extra payment to be made to the Pilots under this scheme from the public funds, a 25 per cent. increase of the pilotage fees was sanctioned by Government as a temporary measure with effect from the 1st May 1918. The financial result of the imposition of this surcharge was carefully watched; and it was discontinued with effect from 1st December 1918. Steps were also taken to ensure that the members of the service deputed to Military Service occupied, on reversion to civil duty, the same place in the seniority list which they would have occupied had they not been so deputed, subject to the proviso that they successfully passed at a subsequent date the departmental examinations prescribed by the rules.

2. **Vessels piloted.**—The number of vessels piloted inwards was 950 with a gross tonnage of 3,717,543 and the same number outwards with a gross tonnage of 3,685,156 against 899 and 898 with a gross tonnage of 3,441,569 and 3,420,131, respectively, in the previous year. Vessels drawing over 21 feet piloted inwards and outwards were 296 and 608 against 299 and 544, respectively, in the preceding year.

As in the previous year only one inward-bound vessel was neaped for want of sufficient depth of water over the bars.

Seventeen vessels were detained at the Sandheads for want of Pilots against three and five in the two previous years.



3. **Pilotage receipts.**—The receipts from pilotage fees realised during the year amounted to Rs. 10,42,874 against Rs. 8,63,709 in the previous year. The improvement in receipts was partly due to vessels of larger tonnage visiting the port.

4. **Casualties to vessels.**—Twenty-seven cases of groundings occurred during the year against 12 in the previous year, resulting in the sinking of one steamer. Three of these cases were due to error of judgment and one to inattention on the part of the Pilots concerned. There was one case of collision in which a brig was damaged against two in the previous year. The pilot in charge is not held to blame.

5. **Courts of Enquiry.**—Two cases of casualties only were referred to Special Courts of Enquiry against three in the previous year.

6. **Examinations.**—Fifty-one candidates sat for the examinations for Colonial and Home Trade Certificates of Competency as Master, Mate or Engineer of sea-going vessels of whom 24 passed. Out of the total number of 555 candidates, 192 passed the examinations for certificates of competency as Master, Serang, Engineer and Engine-driver under the Inland Steam Vessels Act, I of 1917.

There were 145 candidates for certificates of competency as Second Class Master, Serang or Engine-driver of an inland steam vessel in Mesopotamian waters, of whom 98 passed.

7. Captain D. F. Vines, O.B.E., R.I.M., held the office of the Port Officer and Shipping Master throughout the year except for a period of about two months when he was on war leave. Commander G. H. S. LaTouche, O.B.E., R.I.M., and Mr. S. H. Reaks, M.B.E., held the office of Deputy Port Officer and Senior Deputy Shipping Master and Assistant Port Officer and Deputy Shipping Master, respectively, during the year.

The office of First Engineer and Shipwright Surveyor was held successively by Engineer Commander C. F. Laslett, M.B.E., R.I.M., and Engineer Commander C. T. Amor, R.I.M.

8. The Governor in Council takes this opportunity of recording his appreciation of the valuable services rendered by Captain Vines during this last year of the war which was one of particular difficulty.

#### PORT OF CHITTAGONG.

**Arrivals and departures of vessels.**—The total number of vessels that entered the port was 709, of which 142 were sea-going vessels, 462 inland steamers and 105 native sailing ships, with a total gross tonnage of 309,690 as against the total number of 600 vessels with a gross tonnage of 312,851 in the previous year. The total number of departures was 706, including 144 sea-going vessels, 460 inland steamers and 102 native craft, with a total gross tonnage of 311,288 as against the total number of 602 vessels with a gross tonnage of 313,068 in the previous year.

**Casualties to vessels.**—There were four casualties to vessels of which three resulted in the total loss of the vessels and one was a case of fire on board.

**Examinations.**—Candidates numbering 128 appeared for the examinations for certificates of competency as Master, Serang, Engineer or Engine-driver under the Inland Steam Vessels Act, I of 1917, of whom 64 passed.

Mr. McKenna, the Collector of Customs, Chittagong, was in charge of the Department throughout the year in addition to his own duties. The Port Officer has specially brought to notice the valuable services rendered by Engineer Lieutenant Commander G. Hull, R.I.M., Engineer and Shipwright Surveyor, and Messrs. Chudleigh and Lockhart, Harbour Masters, in connection with the fire that broke out on board the H. M. S. "Sphinx."

By order of the Governor in Council,

F. A. A. COWLEY,

Secy. to the Govt. of Bengal.



**GRANT OF CONCESSIONS IN THE MATTER OF CIVIL  
APPOINTMENTS UNDER GOVERNMENT TO THOSE WHO  
HAVE RENDERED SERVICE IN CONNECTION WITH THE  
PROSECUTION OF THE WAR.**

**GOVERNMENT OF BENGAL.**

**POLITICAL DEPARTMENT.**

**Political Branch.**

DARJEELING, THE 22ND SEPTEMBER 1919.

**RESOLUTION—No. 2706P.—D.**

THE question of granting concessions in the matter of securing civil appointments under Government to those persons who have rendered service in connection with the prosecution of the war has been under the consideration of Government, and the Governor in Council is pleased to make the following announcements in addition to those already made in Government Resolution No. 2184P.-D., dated the 27th July 1918 :—

1. The following kinds of service shall be deemed to be service in the prosecution of the war—

- (a) Service in the combatant ranks of the army.
- (b) All other service involving subjection to military law under the Army Act, or the India Army Act, and service in the Indian Branch of the Indian Defence Force.
- (c) Clerical and other service under military and munitions authorities (i) overseas and (ii) in India.

Preferential treatment shall be given to the various kinds of service in the order indicated above, and persons who have rendered active service shall be given preference over those who have not. In order to make good a claim to preferential treatment an applicant must satisfy the authority making the appointment that the service rendered was whole-time service and was also approved service.

2. In pursuance of these decisions every person who has rendered service of the character described above shall be permitted to deduct from his age for the purpose of article 51. Civil Service Regulations, the period of such service rendered up to the date of his release from military or other duties, and, if invalided from such service, he shall be permitted to include for the purposes of deduction the period from the time when he was invalided up to the date on which the war may be declared to have ended under the provisions of the Termination of the Present War (Definition) Act, 1918, 8 and 9 George V, Chap. 59.

3. Notwithstanding any rules or executive orders prescribing educational, professional or technical qualifications, any person who has rendered service of the nature already described and has been prevented thereby from acquiring such qualifications may, at the discretion of the authority competent to make an appointment for which such qualifications are required, be admitted to such appointment, provided that the educational, professional and technical attainments which he possesses are deemed sufficient for the adequate performance of the duties of the appointment.



4. The principles herein laid down are subject to the following general reservations, which officers making appointments will apply at their discretion :—

- (a) The application of these principles must be consistent with the public interest.
- (b) There must be no injustice to the claims of persons already in Government service who had no opportunity of rendering military service.
- (c) No person may be appointed to a post the duties of which he is not competent to perform.

ORDER :—Ordered that a copy of the Resolution be published in the *Calcutta Gazette* and that copies be forwarded to the other departments of Government for information and for communication to the officers subordinate to them.

By order of the Governor in Council,

J. H. KERR,

*Chief Secy. to the Govt. of Bengal.*

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**REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR  
THE WEEK ENDING 20TH SEPTEMBER 1919.**

THE rainfall during the week was sufficient. The agricultural prospects are favourable. Eighty-six relief works were open during the week. The number of persons relieved on works was 15,925. The number of persons in receipt of gratuitous relief was 12,012, viz., 6,864 on cash doles in 81 unions, 3,683 on paddy-husking advances, 885 weavers, and 380 better class poor. The grand total of persons relieved was 27,937. The increase in the number of persons on relief works was due to the completion of field operations, and the decrease in the numbers in receipt of cash doles was due to the closure of 41 centres. The number of persons relieved on private works was 510. The charitable societies also relieved 646 persons by weekly doles and 900 on daily doles and cooked food. During the week eight cases of theft of paddy were reported. Public health is generally good. Outbreak of malaria and cholera is reported from certain localities. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5 to 5 $\frac{5}{16}$  seers in the rupee.

M. C. MCALPIN,

*Secy. to the Govt. of Bengal.*

DARJEELING,

*The 26th September 1919.*



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 25th September 1919.

**Summary.**—A cyclone of unusual severity accompanied by heavy rain passed over the districts of the Dacca Division and Khulna on the 24th instant, causing immense damage to the standing crops and live-stock. The tracts actually affected and the extent of damage are not yet known. The rainfall was generally light to moderate in the rest of the province. Weeding of winter paddy, cutting and steeping of jute are approaching completion. The average price of common rice for the province has fallen by about 1·77 per cent. as compared with that of the previous week. The total number of persons in receipt of gratuitous relief in Brahmanberia subdivision of Tippera district was 7,203. The conditions in Bankura are published separately.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	0·77	{ 5 6 <sup>3</sup> / <sub>4</sub> }	{ 5 <sup>3</sup> / <sub>4</sub> 6 <sup>3</sup> / <sub>4</sub> }	Harvesting of <i>aus</i> paddy continues. Harvesting and steeping of jute continue. Fodder and water are sufficient.
	Diamond Harbour.	0·95	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>3</sup> / <sub>4</sub> }	{ (n) (n) }	
	Barrackpore	(n)	(n)	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	
	Barasat ...	1·40	4	4	
	Basirhat ...	(n)	(n)	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>4</sub> }	
2	NADIA ...	0·66	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>4</sub> }	4 <sup>1</sup> / <sub>2</sub>	Prospects of standing crops, including jute, are good. Harvesting of <i>aus</i> paddy is nearly finished. Lands are being prepared for <i>rabi</i> crops. Steeping and washing of jute continue. Cattle-disease is reported from Tehatta thana.
	Kushtia ...	0·45	4	4	
	Meherpur ...	1·25	6	6	
	Chuadanga ...	1·30	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Ranaghat ...	0·88	{ 4 6 <sup>3</sup> / <sub>4</sub> }	4	
3	MURSHIDABAD	0·62	5	4 <sup>1</sup> / <sub>2</sub> to 4 <sup>1</sup> / <sub>2</sub>	Prospects of standing crops are good but more rain is wanted for <i>aman</i> paddy in some parts. Harvesting of <i>aus</i> paddy and jute still continues. Weeding of <i>aman</i> paddy continues. Fodder is sufficient. No large import or export.
	Lalbagh ...	0·96	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	4 <sup>1</sup> / <sub>2</sub> to 6 <sup>1</sup> / <sub>2</sub>	
	Jangipur ...	0·94	5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	
	Kandi ...	0·76	5 <sup>1</sup> / <sub>2</sub>	5 to 5 <sup>1</sup> / <sub>2</sub>	
4	JESSORE ...	2·46	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>4</sub> }	{ 4 5 <sup>1</sup> / <sub>2</sub> }	Standing crops are doing well. Condition and prospects of jute are fair. Steeping and washing continue. Fodder is sufficient.
	Jhenidah ...	1·51	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>4</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Magura ...	(n)	(n)	4	
	Narail ...	0·27	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Bangaon ...	1·01	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	

\* Burma rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEEDS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
5	KHULNA ...	8.02	6	5 6†	A severe cyclone blew all through Wednesday last, damaging public and private buildings, houses and trees. Enquiries are being made regarding its effects on crops. Transplantation of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are practically over. Condition and prospects of jute are good; the effects of the weather on the growth of the crop are good. No damage. Cutting and steeping are going on. Water and fodder sufficient. Cattle-disease is reported from Fakirhat police-station.
	Satkhira ...	4.51	4†	4†	
	Bagerhat ...	9.03	4½† 5½†	4½† 5½†	
6	BURDWAN ...	Nil	5 6†	5 6½†	Weather hot and dry. Condition of <i>aman</i> paddy is fair. Weeding of <i>aman</i> paddy is nearly stopped at Kalna subdivision for want of rain. Harvesting of <i>aus</i> paddy continues.
	Asansol ...	0.69	5	4½	
	Katwa ...	1.92	5	5†	
	Kalna ...	0.22	4½	4½†	
7	BIRBHUM ...	0.12	4½	4½	Rain is wanted in Sadar subdivision. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice has been indented for but has not yet been received.
	Rampurhat ...	4.36	4½	4½	
8	BANKURA ...	0.05	5†	5 6†	Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur ...	0.22	5†	5½†	
9	MIDNAPORE	(n)	(n)	5½† 5½††	Report not received.
	Ghatal ...	(n)	(n)	5†	
	Tamluk ...	(n)	(n)	4† 5½†	
	Contai ...	(n)	(n)	6† 6½†	
10	HOOGHLY ...	0.62	4½† 5½† to 6½†	4½† 5½† to 6½†	Effects of weather on the growth of the crops are favourable. Fodder is sufficient. Price of rice is falling.
	Serapipore ...	1.29	5 6†	4½ 6†	
	Arambagh ...	0.35	5†	5†	
11	HOWRAH ...	0.68	4† 6½†	4½ 6½†	Weather seasonable. Prospects of standing crops are favourable. Condition of jute is good. Harvesting of jute continues. Fodder is sufficient.
	Ulubaria ...	0.42	4† 6†	4	
12	RAJSHAHI (RAMPUR-BOALIA).	1.84	4½	4½	The prospects of standing crops are favourable. Harvesting of jute continues. Burma rice is out of stock. Fodder is sufficient.
	Naogron ...	3.98	3†	3†	
	Nator ...	2.04	4†	4†	

\*Common rice.

†Coarse rice.

‡Burma rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN RUPEES, PER MUKK.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ...	4.77	4½	3½	Weather seasonable. Condition of standing crops fair. Transplantation of <i>aman</i> paddy still continues. Steeping of jute is going on. Fodder and water are available.
	Thakurgaon	3.18	4½	4	
	Balurghat ...	2.47	4	3½ <sup>5</sup> / <sub>8</sub>	
14	JALPAIGURI	3.91	4	4½	Prospects of standing crops are fair. Transplantation of winter rice and washing of jute still continue. Fodder and water are sufficient.
	Alipur ...	2.84	3½	3½	
15	DARJEELING	(n)	(n)	4½	Report not received.
	Kurseong ...	(n)	(n)	4½	
	Siliguri ...	(n)	(n)	3½	
	Kalimpong ...	(n)	(n)	5½	
16	RANGPUR ...	(n)	(n)	3½	Report not received.
	Nilphamari	(n)	(n)	3½	
	Kurigram ...	(n)	(n)	3½	
	Gaibandha ...	(n)	(n)	3½	
17	BOGRA ...	0.80	{ 4½ 6° }	{ 3½ 6° }	Transplanting of winter paddy is nearly finished. Harvesting of jute continues. Prospects are fair.
18	PABNA ...	1.06	{ 4½ 6° }	{ 4½ 6 }	
	Sirajganj ...	(n)	(n)	{ 4 5½° }	Prospects of standing crops are good. There have been some imports of Burma rice into Pabna. Fodder is sufficient.

(n) Not reported.

° Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN RUPEES, PER MUPHE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
19	MALDA ..	(n)	(n)	{ 4 5½ }	Report not received.
20	COOCH BEHAR	7.45	7½	7½	Weather rainy and cloudy. Transplantation of <i>haimanti</i> paddy seedlings is going on briskly. Burma rice is not available. Fodder is sufficient.
21	DACCA ...	(n)	{ 4 5½ }	{ 4½ 5½ }	The weather has been stormy and a terrible cyclone devastated the district during the night of the 29th. There has been heavy loss to property and many lives have been lost. Damage to broadcast <i>aman</i> has been severe. The extent of damage not fully known yet. The loss of cattle has also been large.
	Manikganj ...	10.35	{ 4 5½ }	{ 4½ 5½ }	
	Narayanganj	7.00	{ 3½ 5½ }	{ 4 5½ }	
	Munshiganj*	9.55	{ 4 5½ }	{ 3½ 5½ to 5½ }	
22	MYMENSINGH	(n)	(n)	{ 3½ 5½ }	Report not received.
	Jamalpur ...	(n)	(n)	{ 3½ 5½ }	
	Tangail ...	(n)	(n)	{ 3½ 4 }	
	Netrakona ...	(n)	(n)	{ 4 5½ }	
	Kishorganj...	(n)	(n)	{ 3½ 5½ }	
23	FARIDPUR ...	(n)	(n)	{ 3½ 5½ }	Report not received
	Goalundo ...	(n)	(n)	{ 4½ 5½ }	
	Madaripur ...	(n)	(n)	4	
	Gopalganj†...	(n)	(n)	4	
24	BAKARGANJ (BARISAL).	7.48	{ 4 4½ 6½ }	{ 3½ 4½ 6½ }	Prospects of standing crops are good. Weather is cyclonic. Fodder is sufficient.
	Pirojpur ...	10.69	{ 4 5½ 5½ }	{ 4 4 4 }	
	Patuakhali...	8.70	{ 4 5½ 5½ }	{ 4 5½ 5½ }	
	Dakshin Shabazpur (Bhola).	0.77	{ 3½ 4½ }	{ 3½ 4½ }	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ Aus rice.

\*\* Common rice.

§ Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
25	CHITTAGONG	(n)	(n)	{ 5 6½† }	Report not received.
	Cox's Bazar	(n)	(n)	{ 4½ 4½† }	
26	TIPPERA (COMILLA).	3.55	{ 4½ 6† }	{ 4½ 5½† }	The prospects of <i>aman</i> paddy are hopeful. Prospects of jute are good. The price of rice still rules high. Transplanting of <i>aman</i> paddy is nearly finished. The total number of persons receiving gratuitous relief in Brahmanbaria subdivision is 7,203 during the week.
	Brahmanbaria.	5.34	{ 4½ 4½† }	{ 4½ 4½† }	
	Chandpur ...	4.44	{ 4½ 4½† }	{ 4½ 4½† }	
27	NOAKHALI ...	(n)	(n)	{ 3½ 5½† 4½° }	Report not received.
	Feni ...	(n)	(n)	{ 3½ 5° }	
28	CHITTAGONG HILL TRACTS.	2.38	{ 4 6† 4† }	{ 5 7† 4° }	Sowing of plough paddy continues. Out-turn of <i>jhum</i> paddy is fair. Fodder is sufficient.

° Aus rice.

† Local rice.

‡ Burma rice.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA, the 29th September 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of September 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914. <sup>c</sup>
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 14 0	5 4 0	3 0 0	2 0 0	3 6 0	3 14 0	...
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 7 0	4 13 6	2 4 0	2 4 0	3 12 0	3 14 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 8 0	4 8 0	2 1 0	2 5 0	3 0 0	4 0 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 2 0	7 4 0	3 0 0	2 0 0	3 6 0	4 0 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 0 0	5 8 0	2 5 0	2 12 0	3 0 0	3 2 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 12 0	5 4 0	2 6 0	2 14 0	3 12 0	3 0 0	...

<sup>c</sup> Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 10 0	4 10 0	2 12 0	2 0 0	3 2 0	3 8 0	...
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 6 0	4 13 0	2 1 0	2 2 0	3 0 0	3 6 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 4 0	4 4 0	1 14 0	2 0 0	2 14 0	2 10 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 12 0	7 0 0	2 12 0	2 12 0	3 4 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 5 3	4 3 0	2 2 0	2 8 0	3 2 0	2 14 0	3 6 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	4 12 0	2 4 0	2 8 0	3 0 0	2 4 0	3 0 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of September 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	10 0 0	10 0 0	7 0 0	7 0 0	7 12 0	8 0 0	7 8 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 10 0	9 7 0	5 12 0	6 4 0	9 0 0	8 8 0	5 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	9 4 0	8 8 0	5 0 0	4 12 0	8 4 0	7 0 0	5 10 0
Chittagong ...	14 0 0	14 0 0	8 0 0	7 0 0	9 0 0	10 0 0	7 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	11 0 0	12 8 0	6 0 0	5 10 0	6 8 0	7 0 0	6 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	11 0 0	9 5 0	6 0 0	7 8 0	7 8 0	8 0 0	8 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	12 8 0	11 0 0	8 4 0	8 4 0	7 4 0	7 10 0	8 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 8 0	5 8 0	5 0 0	6 0 0	7 4 0	6 4 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	9 5 0	4 1 8	4 0 0	5 0 0	5 8 0	4 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0	7 8 0	4 0 0	4 2 0	5 8 0	6 4 0	5 0 0
Chittagong ...	8 8 0	8 8 0	4 6 0	4 6 0	5 0 0	6 0 0	5 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 8 0	10 8 0	6 8 0	5 4 0	6 0 0	5 14 0	5 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 11 0	8 5 0	4 4 0	4 10 0	5 8 0	5 4 0	5 5 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 12 0	9 8 0	5 0 0	4 12 0	5 12 0	5 12 0	6 8 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of September 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	8 3 0	8 0 0	4 3 0	5 0 0	4 10 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 12 0	7 12 0	5 3 0	6 0 0	6 0 0	5 3 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	8 12 0 to 9 0 0	8 12 0 to 9 0 0	7 4 0	5 3 0	4 10 0 to 4 12 0	6 0 0	...
Ohittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	5 9 3
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 0 0	(a)	...	4 0 0	...	...	3 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	...	...	5 4 0	5 0 0	5 3 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 3 0	8 3 0	8 3 0	5 0 0	5 3 0	5 12 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	10 0 0	10 3 0	8 0 0	4 3 0	6 0 0	3 10 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0 to 11 0 0	10 0 0 to 11 0 0	7 3 0	5 12 0	4 3 0	4 3 0	...
Ohittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	6 3 0	7 0 0	7 3 0	6 3 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of September 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	46	45	44	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 0 0	4 0 0	3 12 0	3 8 0	3 14 0	4 4 0
Obelia Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 12 0	8 12 0	4 8 0	4 2 0	3 12 0	4 0 0	5 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0	7 10 0	4 8 0	3 12 0	4 0 0	4 8 0	...
Chittagong ...	8 0 0	to 8 8 0	to 5 8 0	4 0 0	to 4 4 0	5 0 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	5 8 0	5 8 0	7 10 0	7 0 0	...

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	10 8 0	6 0 0	5 8 0	5 4 0	6 0 0	5 6 0
Obelia Hat ...	...	...	...	...	...	...	...
Burdwan ...	11 0 0	10 8 0	6 2 0	4 7 0	5 12 0	5 10 0	6 8 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 8 0	11 2 0	6 0 0	5 0 0	5 4 0	6 0 0	...
Chittagong ...	to 12 8 0	to 12 8 0	to 7 0 0	to 6 8 0	to 6 8 0	7 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	12 0 0	12 0 0	7 8 0	6 0 0	7 0 0	7 8 0	6 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	13 8 0	10 0 0	8 0 0	6 0 0	7 5 0	6 0 0	6 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	6 4 0	7 0 0	7 0 0	6 12 0	6 4 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of September 1919.**

Marts.	LINSEED.			MUSTARD.			GHR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	55	56	57	58	59	60	61	62	63	64	65	66
Calcutta	Rs. A. P. 13 8 0	Rs. A. P. 13 8 0	Rs. A. P. 6 8 0	Rs. A. P. 11 8 0	Rs. A. P. 11 8 0	Rs. A. P. 7 12 0	Rs. A. P. 7 12 0	Rs. A. P. 7 12 0	Rs. A. P. 3 8 0	Rs. A. P. 25 0 0	Rs. A. P. 25 0 0	Rs. A. P. 40 0 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	12 0 0 to 13 0 0	(a).....	.....	14 0 0 to 15 0 0	13 8 0 to 15 8 0	8 0 0	7 0 0	7 2 0 to 8 0 0	6 4 0 to 8 0 0	(a).....	(a).....	37 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	12 0 0	12 0 0	6 0 0	15 0 0 to 17 0 0	15 0 0 to 17 0 0	8 8 0 to 9 5 0	8 8 0 to 9 0 0	8 8 0 to 9 0 0	8 4 0 to 9 0 0	40 0 0	40 0 0	50 0 0
Chittagong	15 0 0	15 0 0	10 0 0	14 0 0	13 0 0	7 8 0	12 8 0	13 0 0	8 0 0	(b).....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	12 0 0	12 0 0	6 0 0	12 8 0	12 8 0	8 0 0	14 8 0	14 8 0	10 0 0	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	(a)	(a)	.....	12 0 0	14 8 0	10 0 0	10 0 0	10 8 0	8 0 0	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	.....	.....	.....	14 8 0	14 8 0	6 8 0	13 0 0	15 0 0	7 0 0	.....	.....	.....

Marts.	JUTE.			GHR.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
Calcutta	Rs. A. P. 12 0 0	Rs. A. P. 12 0 0	Rs. A. P. 11 0 0	Rs. A. P. 78 0 0	Rs. A. P. 78 0 0	Rs. A. P. 72 0 0	Rs. A. P. 450 0 0	Rs. A. P. 450 0 0	Rs. A. P. 450 0 0
Chella Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	(a).....	74 0 0	75 0 0	70 0 0	(a).....	(a).....	40 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	9 0 0	7 0 0	5 0 0	80 0 0 to 86 0 0	80 0 0 to 86 0 0	70 0 0 to 72 0 0	425 0 0	425 0 0 Cleaned pieces per 100.	225 0 0
Chittagong	.....	.....	.....	84 0 0	85 0 0	70 0 0	400 0 0	400 0 0 Uncleaned pieces per 100.	200 0 0
Chandpur	7 0 0 to 13 8 0	7 0 0 to 16 4 0	9 0 0 to 12 0 0	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	80 0 0	78 8 0	72 0 0	.....	.....	.....
Narayanganj	10 8 0 to 15 0 0	11 8 0 to 15 12 0	10 8 0 to 13 8 0	.....	.....	.....	.....	.....	.....
Mymensingh	9 0 0 to 13 0 0	10 0 0 to 15 0 0	8 0 0 to 11 0 0	.....	.....	.....	.....	.....	.....
Madaripur	7 0 0 to 14 0 0	8 0 0 to 15 0 0	8 0 0 to 12 0 0	.....	.....	.....	.....	.....	.....
Pabna	.....	.....	.....	78 0 0	78 0 0	80 0 0	.....	.....	.....
Sirajganj	8 0 0 to 10 0 0	9 0 0 to 12 0 0	7 0 0 to 9 8 0	.....	.....	.....	.....	.....	.....
Rangpur	10 0 0	12 8 0	5 0 0	75 0 0	75 0 0	60 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0

(a) Not in stock.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of September 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	83	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	3 0 0	3 0 0	25 0 0	3 0 0	3 0 0	2 11 0	3 15 0(a)	4 0 0(a)	3 2 0
Chettia Hat									
Burdwan	15 0 0	15 0 0	20 0 0 to 25 0 0	3 0 0	3 0 0	3 12 0	3 2 0(b)	3 2 0(b)	4 1 0
Kalna									
Baniganj									
Midnapore	3 0 0 to 14 0 0	3 0 0 to 14 0 0	3 0 0 to 23 0 0	3 10 0	3 10 0	3 2 0	4 0 0(b)	4 0 0(b)	4 2 0
Chittagong	20 0 0	20 0 0	30 0 0	3 12 0	3 12 0	2 15 0	3 0 0	3 0 0	2 4 0
Chandpur									
Dacca				4 12 0	4 0 0	3 8 0	4 1 0(d)	4 1 0(d)	4 0 0
Narayanganj									
Mymensingh									
Madaripur									
Pabna	16 0 0 to 18 0 0	20 0 0 to 25 0 0	26 0 0	4 0 0	3 12 0	4 5 0	3 7 0	3 12 0	4 0 0
Sirajganj									
Baughpur	22 0 0	23 0 0	22 0 0	4 0 0	4 0 0	4 5 0	4 4 0(a)	4 4 0(a)	4 5 0

(a) Monkey brand. | (b) Rising Sun. | (c) Elephant. | (d) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	23 0 0	23 0 0	22 0 0	0 8 0	0 8 0	1 0 0			
Chettia Hat									
Burdwan	26 8 0	27 8 0	19 8 0	0 8 0	0 8 0	0 8 0	0 8 0	0 8 0	0 8 0
Kalna									
Baniganj									
Midnapore	29 0 0 to 39 0 0	29 0 0 to 39 0 0	25 0 0 to 27 0 0	0 7 0	0 7 0	0 7 0	0 1 0	0 1 10	0 2 7
Chittagong	40 0 0	40 0 0	24 0 0						
Chandpur									
Dacca	42 0 0	42 0 0	32 0 0						
Narayanganj									
Mymensingh									
Madaripur									
Pabna	42 0 0	36 0 0	24 0 0						
Sirajganj									
Baughpur	41 0 0	40 0 0	23 0 0						

DACCA,

The 26th September 1919.

J. C. ROY,

for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of September 1918.**

DIVISION.	DISTRICTS AND MAINTS.	QUANTITY PER RUPEE IN SERIES OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL. ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TUR. CADJAN P'KA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
		Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
Number.		S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.
<b>24-PARGANAS.</b>																
1	Chetla Hat ...	4 0	3 12	7 2	4 12	4 4	3 10	4 8	4 0	6 0	4 0	4 0	6 8	12 0	9 7	8 2
2	Magra Hat ...	4 8	4 1	5 8	5 0	4 10	3 6	(a)	(a)	6 10	3 8	3 8	6 2	11 8	11 8	14 1
3	Calcutta-Bellaghata	4 12	4 0	6 15	6 8	6 0	3 7	4 7	4 7	4 14	4 0	3 10	8 7	10 0	10 0	13 8
<b>NADIA.</b>																
4	Goari ...	4 4	4 9	8 0	5 12	6 8	10 10	3 8	3 8	4 8	3 8	3 8	5 7	11 0	11 0	12 8
5	Ranaghat ...	5 8	4 2	8 4	7 4	8 0	3 8	3 8	4 0	8 8	3 8	3 8	6 0	10 8	10 8	10 8
<b>MUMSHIDABAD.</b>																
6	Berhampur ...	4 4	4 0	10 0	4 8	4 4	10 4	4 0	3 4	5 8	4 0	4 0	8 8	13 0	13 0	11 0
7	Kandi ...	4 12	5 0	12 0	5 0	5 2	12 4	4 0	4 0	6 8	4 0	4 0	7 8	10 12	11 0	11 0
8	Jacipur ...	4 12	4 12	10 8	6 0	4 14	11 0	3 8	3 8	...	4 0	4 0	7 0	13 0	12 0	10 0
<b>JESSORE.</b>																
9	Sadar ...	5 8	4 0	10 0	5 14	5 0	12 0	3 4	3 4	5 8	3 4	3 4	6 8	11 4	11 4	12 0
10	Bangaon ...	4 8	4 7	8 15	5 8	5 0	12 8	2 11	2 11	4 8	3 8	3 8	5 8	11 4	11 4	12 8
<b>SHOLLA.</b>																
11	Sadar ...	4 8	5 4	9 8	4 8	5 12	3 10	3 8	3 8	6 8	3 0	3 0	6 8	9 0	10 8	9 0
12	Bakerhat ...	4 0	4 8	7 0	4 6	5 0	9 0	5 0	5 0	8 0	3 10	4 14	8 2	10 8	10 8	11 0
<b>BURDWAN.</b>																
13	Sadar ...	4 6	4 4	9 4	4 12	4 10	11 8	4 0	3 12	6 8	3 12	3 12	7 8	12 8	12 8	9 0
14	Kalna ...	5 0	2 14	5 14	5 0	4 8	9 8	3 8	3 4	4 8	3 8	3 4	6 0	13 8	12 12	12 8
<b>BIRBHUM.</b>																
15	Seri ...	4 2	4 8	9 0	4 8	5 0	10 0	4 0	4 0	7 0	3 0	3 0	6 8	11 0	11 0	10 0
16	Rampur Hat ...	4 12	4 12	10 0	5 0	5 0	11 0	4 0	4 0	4 8	3 8	3 4	8 0	11 0	11 0	11 0
<b>BANKURA.</b>																
17	Sadar ...	4 11	5 0	9 0	5 0	5 4	9 8	4 0	3 14	6 8	3 12	4 0	6 0	11 8	11 8	10 8
18	Vishnupur ...	4 12	5 4	10 0	5 0	5 8	10 8	4 0	4 0	7 0	3 12	3 8	6 4	10 4	10 8	10 8
<b>MIDNAPORE.</b>																
19	Sadar ...	4 8	5 0	10 1	5 8	6 0	10 8	3 4	3 4	5 4	3 4	3 4	5 4	10 0	10 0	10 0
20	Contal ...	6 0	5 8	12 0	6 4	6 0	13 0	3 0	3 0	7 0	3 0	3 0	7 0	9 8	10 0	8 0
<b>HOOGHLY.</b>																
21	Sadar ...	4 8	3 4	7 0	4 12	3 12	8 0	4 0	4 0	5 0	4 0	4 0	6 8	11 0	10 8	12 0
22	Arambagh ...	5 12	4 12	9 8	5 14	5 0	10 0	3 4	3 4	5 8	3 4	3 4	5 0	10 10	10 10	11 0
<b>HOWRAH.</b>																
23	Sadar ...	4 8	4 0	8 0	5 0	4 8	9 0	4 0	4 0	5 8	4 0	4 0	6 8	10 0	10 0	13 0
24	Uinbaria ...	4 4	3 12	8 0	4 8	4 0	9 0	4 0	4 0	4 8	3 10	3 8	5 12	11 8	11 8	13 8
<b>RAJSHAHI.</b>																
25	Rampur-Boalis ...	4 2	4 8	7 8	4 2	4 8	9 0	3 0	3 0	4 14	3 0	3 0	5 4	9 12	9 8	8 12
26	Nator ...	4 0	4 12	7 8	4 8	4 10	9 0	4 0	4 0	6 8	4 8	4 0	7 14	9 8	9 8	8 0
27	Dinalpur-Railway Bazar Hat.	4 8	4 8	7 0	4 12	4 12	9 0	3 14	3 12	6 0	3 0	3 8	6 0	10 12	10 12	9 0
28	Jalpaiguri-Sadar ...	3 8	4 0	10 0	4 0	4 8	11 8	4 0	4 0	5 8	3 8	4 0	6 8	8 0	8 0	8 0

\* Karkatoh.

(a) Not available.



**Price-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of September 1919—conold.**

DIVISION.	Number.	DISTRICTS AND PARTS.	QUANTITY PER RUPEE IN TERMS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR THUR, CADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
RAJSHAH.		DAJSHING.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
	29	Sadar ...	3 8	3 4	7 2	4 0	4 12	3 8	3 8	3 8	0 0	2 10	2 12	2 8	0 0	0 0	0 0
	30	Biliguri (a) ...	...	4 0	3 0	...	5 0	10 0	...	3 8	3 8	...	3 8	3 0	...	3 0	3 0
		RANGPUR.															
	31	Sadar ...	3 10	3 12	6 0	4 0	4 0	3 2	3 12	3 12	0 0	3 0	3 0	7 0	3 0	3 0	3 0
	32	Nilphamari ...	3 12	4 0	3 0	(a)	(a)	3 2	3 0	3 0	0 0	3 0	3 0	6 0	10 0	10 0	3 0
	33	Bogra—Sadar ...	3 6	3 15	6 0	3 12	4 5	7 2	3 6	3 6	7 0	3 6	3 6	6 12	9 12	9 12	3 0
		PABNA.															
	34	Sadar ...	4 0	4 0	9 8	4 8	4 12	10 4	3 14	4 0	9 8	2 0	3 14	3 4	10 8	10 8	10 0
	35	Sirajganj ...	3 12	4 0	7 0	4 0	4 8	9 0	4 8	4 8	7 4	3 12	3 12	7 8	3 0	3 0	3 0
DACCA.		MALDA.															
	36	Sadar ...	4 8	4 8	10 8	4 12	4 12	11 0	3 12	4 0	5 0	3 0	3 0	6 0	11 0	12 0	3 0
	37	Balis—Nawabganj ...	4 0	4 10	10 10	4 4	5 4	11 5	3 12	4 4	5 0	3 8	3 8	3 0	11 0	11 0	9 8
		DACCA.															
	38	Sadar ...	4 0	3 8	7 0	4 4	3 12	9 0	4 5	4 5	4 0	3 3	3 3	6 8	3 0	10 0	9 0
	39	Munshir Hat ...	3 10	3 10	8 8	4 0	3 5	...	(a)	(a)	(a)	(a)	(a)	...	3 0	3 0	3 0
		MYMENSINGH.															
	40	Nasirabad ...	4 0	4 0	7 12	5 0	5 0	3 0	4 0	4 0	3 0	4 0	4 0	5 4	9 0	9 0	3 0
	41	Netrokona ...	3 10	3 6	7 8	4 2	3 12	...	5 0	5 10	3 0	3 8	3 2	6 0	9 8	10 0	3 0
		FAHIDPUR.															
CHITTAGONG.	42	Sadar ...	4 0	3 8	7 0	4 0	3 12	9 0	3 4	3 4	0 0	3 8	3 8	5 8	10 0	10 0	10 0
	43	Rajbari ...	4 3	4 3	8 0	4 9	4 6	5 12	3 7	3 0	5 10	3 0	3 0	6 5	10 0	3 0	10 0
		BAKARGANJ.															
	44	Barisal ...	3 14	3 12	8 0	4 0	4 0	3 0	5 4	5 10	3 0	3 4	3 2	6 0	9 4	9 4	3 14
	45	Pirojpur ...	3 11	3 12	8 0	3 12	3 14	...	4 8	4 8	...	(a)	(a)	6 0	7 0	3 0	3 0
		TIPPERA.															
	46	Oomilla ...	3 8	3 6	8 10	4 0	4 1	3 15	4 8	4 8	2 4	3 0	3 0	4 10	5 14	10 0	3 8
	47	Chandpur ...	3 10	3 4	7 8	4 7	3 14	10 4	5 2	5 0	5 8	3 12	3 12	7 4	10 0	3 0	10 0
		NOAKHAL.															
	48	Kakara Hat ...	3 8	3 15	7 0	5 4	4 6	6 0	4 4	4 4	3 0	4 0	4 0	6 0	9 0	9 0	9 0
CHITTAGONG.	49	Pani Hat ...	3 4	3 12	10 0	(b)	4 7	12 0	5 8	5 9	3 0	(a)	(a)	...	3 8	3 0	3 2
		CHITTAGONG.															
	50	Sadar ...	4 8	4 8	9 0	5 0	5 0	10 0	4 0	4 0	6 0	3 8	3 0	5 8	9 8	9 0	12 0
CHITTAGONG.	51	Ox's Bazar ...	4 8	5 0	12 0	(a)	(a)	12 8	4 0	3 8	4 8	3 4	3 4	5 8	9 0	9 0	9 8
	52	Chittagong Tracts—Bangamati.	4 8	5 0	8 0	6 0	7 0	10 0	3 8	4 0	4 0	2 8	2 8	4 0	3 0	3 0	9 0

\* Karkatch.

(a) Not in stock. (b) Aus.

(n) Not reported.

DACCA ;  
The 26th September 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 27th September 1919.**

Names of Articles.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 4 0	9 8 0	0 4 0	.....
" medium	9 10 0	9 13 0	0 4 3	0 4 6
Patnai, coarse	8 0 0	8 11 0	0 3 6	0 3 9
" medium	9 8 0	9 13 0	0 4 0	.....
Nagra, coarse	8 2 0	8 12 0	0 3 9	.....
" medium	9 4 0	9 14 0	0 4 0	.....
Dudhkalma	8 12 0	9 4 0	0 4 0	.....
Rangoon Boiled	7 14 0	8 4 0	0 3 6	.....
Kajla	.....	.....	0 3 6	.....
Wheat, Dudhia	7 12 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 2 0	.....	.....	.....
Gram, Patnai (whole)	7 4 0	7 12 0	0 3 0	0 3 6
" dal	8 12 0	9 4 0	0 3 6	0 4 0
Mung " (Hari)	9 8 0	10 8 0	0 5 6	0 6 0
" " (Krishna)	9 0 0	10 0 0	0 5 0	.....
Arhar " (split)	8 8 0	11 0 0	0 3 6	0 5 0
Masur " (Khanri)	7 8 0	8 8 0	0 3 0	0 3 6
" " (Khanri)	9 8 0	10 4 0	0 4 0	0 4 3
Kalai "	7 8 0	8 8 0	0 3 3	0 3 6
Salt	3 1 6	3 5 0	0 1 6	0 1 9
Sugar (Brown Java)	20 0 0	.....	0 8 0	.....
Gur, Bheli	.....	.....	0 3 0	0 5 0
" Bhursut	11 6 0	11 4 0	0 6 0	.....
" Date	.....	.....	.....	.....
Milk	10 0 0	12 0 0	0 5 0	.....
Mustard oil	37 0 0	39 8 0	1 2 0	1 4 0
Flour, country	9 6 0	10 4 0	0 4 0	0 4 6
Atta, No. 3	8 0 0	.....	0 3 6	0 4 6
" " 2½	8 4 0	.....	.....	.....
" " B	10 2 0	.....	.....	.....
Suji	9 14 0	10 6 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	85 0 0	86 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	79 0 0	80 0 0	2 5 0	.....
Maize	6 8 0	7 0 0	.....	.....
Potato	5 12 0	6 12 0	0 2 6	0 3 6
Patal	6 8 0	7 8 0	0 3 0	0 4 0
Brinjal	3 4 0	3 8 0	0 2 0	0 3 0
Onion	4 4 0	4 10 0	0 1 6	0 2 0
Fish, Rahu	28 0 0	32 0 0	0 12 0	0 14 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices at the following markets :—

Wholesale.—Chella Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets, Posta Bazar.

Retail.—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. C. ROY,

for President, Advisory Food Committee.

CALCUTTA, the 27th September 1919.



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, i.e., by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the months of April to July, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta by rail, river, canal, road, and sea (coastwise) during the months of April to July, 1919, amounted to 8,119,000 maunds, as against 4,160,000 maunds in the corresponding period of the preceding year,—an increase of 95 per cent. There was an increase (28 per cent) in the imports of coal and coke (33,381,000 maunds as against 26,132,000 maunds last year). The imports by rail, river, road, and sea (coastwise) of Indian cotton piecegoods showed an increase of 65 per cent, the total value amounting to Rs. 3,10,43,000 as against Rs. 1,87,78,000 in 1918. The quantity of indigo imported during the months of April to July, 1919, decreased from 4,082 maunds to 972 maunds. The imports of raw jute amounted to 868,000 bales as against 1,394,000 bales—a decrease of 38 per cent. The importations of gunny bags also showed a decrease of 12 per cent (128 million bags as against 145 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 74 per cent from 2,139,000 maunds to 3,728,000 maunds. The imports of sugar decreased by 25 per cent from 268,000 maunds to 201,000 maunds and those of tea by 10 per cent from 806,000 maunds to 726,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta by all routes during the months of April to July, 1919, increased by 1 per cent (Rs. 8,73,39,000 as against Rs. 8,65,68,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) decreased from 423 million bags to 354 million bags, but the shipments of gunny bags to other Indian ports increased from 9 millions to 14 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) increased from 1,650,000 maunds to 1,873,000 maunds, or by 14 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.

† One maund of paddy is equivalent to 25 seers of rice.



TABLE I

*Trade of Calcutta in certain selected articles in the four months, April to July, 1919, compared with the corresponding months of 1918.*

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COASTWISE)	
	April to July, 1919	April to July, 1918	April to July, 1919	April to July, 1918
<b>Food-grains—</b>				
Rice ... .. Mds	7,221,996	2,678,017	1,678,026	1,771,217
Paddy ... .. "	1,435,523	771,000	114,205	...
Total (in rice) (b) ... .. "	8,119,304	4,159,948	1,764,476	1,771,217
Wheat ... .. "	911,178	2,492,075	52,389	440,013
Wheat flour ... .. "	29,642	14,279	181,788	122,201
Gram and pulses ... .. "	2,220,588	2,279,657	604,308	548,554
Other food-grains ... .. "	280,426	167,263	27,607	18,605
Total food-grains ... .. "	11,670,938	9,112,252	2,564,628	2,921,593
Oilseed Cake ... .. "	22,200,801	26,129,206	4,546,818	1,144,989
Cotton, raw ... .. Bales	78,164	44,268	28,198	10,041
.. twist and yarn, Indian ... .. Mds	100,911	119,207	76,268	21,467
.. piece goods, Indian ... .. Rs	2,10,42,849	18,778,269	6,50,276	5,10,913
Indigo ... .. Mds	972	4,082	6,220	15,482
Jute, raw ... .. Bales	688,684	1,294,128	578,070	722,269
.. gunny bags ... .. No	127,778,420	143,885,683	220,984,352	287,651,191
Lao ... .. Mds	201,127	175,892	189,798	146,940
Oilseeds—Linseed ... .. "	2,881,648	970,821	1,902,676	424,516
.. Rape and mustard ... .. "	1,066,473	1,163,692	19,122	128,424
Silk raw ... .. "	742	535	1,640	1,292
Sugar—Refined ... .. "	21,125	75,404	86,212	5,092
.. Unrefined ... .. "	180,123	192,668	698	119
Tea (Indian) ... .. "	725,042	805,938	794,792	862,224
Tobacco—unmanufactured ... .. "	494,520	222,772	79,569	52,722
.. manufactured ... .. "	19,247	26,145	2,210	1,969
	IMPORTS		EXPORTS	
	BY SEA (FOREIGN AND COASTWISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April to July, 1919	April to July, 1918	April to July, 1919	April to July, 1918
Cotton twist and yarn—foreign ... .. Mds	9,222	29,962	82,186	76,162
.. .. .. —Indian ... .. "	9,047	12,422	180,920	120,562
.. piece goods—foreign ... .. Rs	4,22,25,217	5,24,24,222	2,78,29,782	2,66,67,769
.. .. .. —Indian ... .. "	6,88,998	27,00,747	1,08,42,922	76,40,920
Kerosene oil (e) ... .. Mds	1,641,427	1,720,146	1,672,658	1,650,422
Salt ... .. "	2,186,228	2,459,296	2,941,591	2,628,416
Gunny bags ... .. No	...	...	46,727,922	46,194,214

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 25 seers of rice.

(c) Including figures of Budget-Budget trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River,

FOOD-GRAINS												
Whence imported	Rice and paddy			Wheat	Wheat flour	Gram and pulse	Other food-grains	Total	Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b) (c)
	Rice	Paddy (a)	Total (in rice)									
BENGAL	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.
Burdwan	93,784	189,434	312,181	.....	20	3,074	35	315,280	12,979,324	9	9	2,074
Birbhum	86,950	1,096	87,634	254	18	.....	.....	87,806	.....	3	22	1,280
Bankura	3,071	31,914	32,017	2	.....	.....	.....	32,019	.....	4	138	6,002
Midnapur	626,841	17,812	637,973	.....	.....	10,769	2	646,744	.....	110	1,179	1,32,632
Hooghly	295,590	161,787	496,458	845	331	12,382	1,720	511,756	22,461	12	12,776	4,26,470
24-Parganas	666,214	418,520	1,137,739	437	22	7,316	1,179	1,186,743	40,290	728	10,707	2,34,200
Nadia	50,077	42,086	77,005	16,786	4,062	266,266	22,241	389,540	.....	878	14	21,942
Murshidabad	26,700	273	26,973	8,824	876	67,868	20,492	124,632	.....	16	.....	1,380
Jessore	93,959	43,991	121,433	307	63	114,757	1,817	238,379	.....	1,199	9	1,356
Khulna	141,824	277,667	315,303	668	.....	10,926	214	326,121	.....	214	.....	3,880
Rajshahi	2,187	109	2,266	12,067	999	64,028	.....	79,379	.....	18	.....	4,480
Dinajpur	22,716	33,989	44,961	.....	.....	2,208	267	47,636	.....	12	.....	160
Jaipalguri	604	1,823	1,650	.....	.....	.....	.....	1,650	.....	.....	8	640
Darjeeling	446	1,829	1,404	.....	.....	16	.....	1,420	.....	.....	.....	160
Bangpur	5,619	4,800	9,244	9,033	5	4,968	1,063	22,332	.....	129	3	960
Bogra	9,613	46,674	88,097	82	.....	3,376	2,463	48,594	.....	30	.....	.....
Pabna	2,555	.....	2,555	26,514	1,377	131,014	767	164,222	.....	8	28	640
Maida	1,280	.....	1,280	10,464	1,193	9,638	6,600	29,175	.....	.....	16	.....
Cooh Behar	417	.....	417	641	199	292	.....	1,849	.....	.....	.....	.....
Dacca	20,261	204	20,679	1,648	86	22,223	7,459	32,106	.....	9,645	26	4,647
Mymensingh	938	.....	938	606	.....	9,064	10,302	20,829	.....	468	27	2,560
Faridpur	14,294	2,799	16,768	16,166	661	93,619	8,616	123,229	.....	673	8	.....
Bakarganj	298,168	1,183	298,907	2	.....	3,216	.....	402,126	.....	11	28	480
Tippera (including Hill Tippera)	3,526	297	3,722	.....	.....	.....	465	4,407	.....	.....	.....	.....
Nonkhali	4	.....	4	.....	.....	789	.....	787	.....	.....	17	1,968
Chittagong	96,062	.....	96,062	.....	.....	2,989	.....	102,062	.....	2,814	.....	.....
Chittagong Port	2,155	.....	2,155	.....	.....	.....	.....	2,155	.....	.....	.....	.....
Total of Bengal	2,967,957	1,278,166	3,765,711	109,197	2,614	851,081	84,167	4,820,770	12,042,065	17,677	26,086	2,46,706
OTHER PROVINCES AND PLACES												
Bihar and Orissa	2,309	2,074	4,120	86,464	9,206	786,378	114,206	1,003,183	20,226,470	580	720	67,000
Assam	145,248	160,252	295,216	4,636	80	4,917	198	246,906	2,268	8	18	7,311
U. P. of Agra and Oudh	880	.....	880	606,802	18,225	229,920	11,945	966,102	.....	2,091	267	4,61,100
Punjab	498	.....	498	11,743	1,642	60,770	1,181	75,633	.....	4,563	240	16,149
Sind and British Baluchistan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	7,310
Central Provinces and Berar	88	6	42	.....	.....	312	125	490	.....	37,262	16,945	5,66,699
Bombay	.....	.....	.....	.....	1	1,566	2	1,361	.....	2,006	22,222	2,51,44,996
Madras	.....	.....	.....	2,525	4	14,422	4	16,965	.....	9,977	10,595	22,12,299
Burma	4,105,026	2,626	4,107,495	283	.....	289,019	166,898	4,334,265	.....	722	.....	.....
Rajputana and Central India	260	.....	260	.....	.....	.....	444	704	.....	.....	.....	1,66,740
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	481	.....	24,000
Mysore	.....	.....	.....	.....	.....	.....	1,159	1,159	.....	.....	1,507	2,55,946
GRAND TOTAL	1919 7,321,996	1,423,523	3,115,204	911,178	29,542	2,220,668	280,426	11,670,938	22,860,801	78,184	91,864	3,08,54,354
	1918 3,678,017	771,090	4,198,946	2,492,074	14,279	2,278,687	167,848	9,119,359	26,182,292	44,213	106,444	1,50,27,422
	1917 2,415,541	626,280	2,805,069	4,222,757	65,533	2,066,602	164,602	9,678,460	20,645,518	78,001	162,974	1,34,47,261

(a) One maund of paddy is equivalent to 26 mds of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



H.

## Canal, and Sea (Coastwise) in the four months, April to July, 1919.

Indigo	JUTE			OILSEEDS			SUGAR		Tea, Indian	TOBACCO		Whence imported
	Bales of 400 lbs	Gunny-bags (r)	Lac	Linseed	Rape and mustard	Silk, raw	Refined	Un-refined		Unmanufactured	Manufactured	
Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL
.....	1,809	31,164	4	683	2,955	.....	.....	1	4	9	45	Burdwan
.....	.....	12,546	128	683	1,446	.....	.....	5	.....	.....	.....	Birbhum
.....	.....	5,412	37	.....	.....	.....	.....	.....	1	64	41	Bankura
.....	1,045	45,498	6	496	931	7	.....	28,067	.....	38	.....	Midnapur
4	17,685	32,912,003	.....	441	778	.....	25	28,610	.....	10,314	750	Hooghly
.....	37,613	68,763,805	.....	.....	2,617	.....	2,106	12,071	1	4,083	2,329	24-Parganas
.....	7,639	16,670	.....	.....	1,807	.....	230	6,989	.....	7,043	3	Nadia
.....	4,070	2,460	925	312	1,170	68	.....	.....	.....	503	1,437	Murshidabad
.....	2,661	15,170	.....	26,540	2,284	467	.....	66,612	.....	2,400	29	Jessore
.....	4,317	8,026	.....	17,524	1,585	.....	.....	680	.....	.....	.....	Kutuba
.....	5,321	1,476	.....	1,869	2,074	.....	.....	.....	.....	.....	2	Rajshahi
.....	7,336	18,519	.....	2,868	1,073	.....	.....	8	.....	356	.....	Dinajpur
.....	29,757	4,323	13	12,128	2,746	.....	.....	.....	190,418	148,842	6	Jalpaiguri
.....	4,168	4,338	.....	.....	323	.....	.....	1	72,108	6,461	18	Darjeeling
.....	92,459	10,906	.....	.....	1,426	.....	.....	.....	3,401	112,266	6	Rangpur
.....	23,171	6,314	.....	418	6,269	.....	.....	3	2	.....	.....	Bogra
.....	20,807	7,216	.....	4,407	8,689	.....	.....	.....	.....	97	.....	Pabna
.....	2,617	451	18	2,379	1,014	100	.....	.....	.....	.....	.....	Malda
.....	77,177	684	.....	14,192	426	.....	.....	2,101	.....	24,060	.....	Cooch Behar
.....	268,012	10,246	.....	2,150	1,261	.....	528	76	.....	16	6	Dacca
.....	133,733	2,280	.....	.....	4,057	.....	13	.....	.....	117	7	Symon Singh
.....	26,676	4,428	.....	1,580	9,555	.....	26	.....	.....	91	13	Faridpur
.....	1,189	21,246	.....	595	139	.....	.....	260	81	.....	.....	Bakarganj
.....	37,769	267	.....	2,786	539	.....	.....	.....	32	.....	.....	Tippura (including Hill Tippura)
.....	40	2,280	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nonkhail
.....	.....	2,214	.....	201	323	.....	.....	.....	2,022	.....	.....	Chittagong
.....	.....	.....	.....	1,855	.....	.....	.....	.....	.....	.....	.....	Chittagong Port
4	231,642	127,209,849	1,141	97,792	57,609	642	5,936	136,374	266,471	312,740	4,662	Total of Bengal
OTHER PROVINCES AND PLACES												
380	76,915	103,884	113,189	1,646,496	113,339	.....	1,322	16,212	1,653	123,251	12,366	Bihar and Orissa
618	60,926	46,062	11,586	62,963	81,898	101	2	21	455,204	126	53	Assam
.....	.....	276,340	47,637	773,673	632,193	.....	1,509	5,681	249	265	277	U. P. of Agra and Oudh
.....	.....	42,640	.....	.....	120,206	.....	.....	401	19	11	3	Punjab
.....	.....	1,107	.....	.....	2,194	.....	.....	.....	.....	6	7	Sind and British Baluchistan
.....	.....	41,651	9,327	71,169	2,626	.....	.....	.....	21	29	1,081	Central Provinces and Berar
.....	.....	19,650	.....	.....	47,406	.....	1,069	.....	48	5,063	72	Bombay
.....	.....	12,612	1,796	690	1,182	.....	6,359	17,683	57	24,248	208	Madras
.....	.....	1,200	18,986	1	.....	.....	1	1,531	6	16,109	610	Burma
.....	.....	21,655	765	2,814	10,717	.....	.....	.....	23	.....	7	Rajputana and Central India
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nizam's Territory
.....	.....	.....	.....	.....	.....	.....	.....	220	.....	264	.....	Mysore
972	(f) 265,494	127,779,420	306,127	2,661,648	1,066,472	743	21,126	180,122	726,042	494,520	19,247	1919
4,052	1,294,128	145,535,686	175,325	975,231	1,162,592	836	75,404	102,666	808,955	263,772	26,145	1918
1,261	613,308	165,377,645	232,760	692,921	1,429,521	1,225	101,063	147,923	663,697	355,726	22,407	1917
GRAND TOTAL												

(d) Excludes imports into the mills outside the Calcutta block, which are 546,751 bales, but includes imports into the Kidderpore Dock, namely, 22,957 bales.

(e) Including gunny cloth, 2 yards of cloth = 1 bag.

(f) Of this, 403,697 bales came by rail, 443,124 bales by river, 8,392 bales by road and 12,351 bales by sea.



TABLE III

Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the four months, April to July, 1919.

Routes		Food-grains						Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (c)	Indigo
		Rice	Paddy (a)	Wheat	Wheat flour	Gram and pulse	Other food-grains					
By rail		Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs	Mds
	E. I. Railway...	166,043	222,700	607,429	30,555	829,190	106,921	25,940,634	7,999	1,390	7,87,085	632
	E. B. Railway (including B. C. Railway)	688,403	814,954	169,480	8,968	654,168	44,141	2,076,728	1,637	808	6,50,261	34
	A.-B. Railway...	1,906	81	.....	.....	821	.....	.....	.....	7	2,204	.....
	B.-N. Railway...	140,206	24,049	2	4	26,824	1,303	7,310,349	44,114	63,079	2,50,34,168	.....
	B. & N.-W. Railway	397	.....	299,053	1	140,461	23,494	.....	292	11	8,456	239
	D. S. Railway...	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,078	.....
	Kalighat-Falta Railway	73,066	44,664	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Howrah-Amra and Howrah-Seakhala Light Railways	33,670	2,629	.....	17	8	.....	.....	.....	.....	16,643	.....
	By river steamer											
Bengal and Bihar		264,767	2,146	8,442	361	27,488	21,516	.....	12,171	200	1,29,894	.....
Orissa		8	2	7,592	9,811	22,321	2,713	.....	34	.....	924	.....
Assam		48,486	68,418	760	46	468	184	2,263	3	8	2,459	.....
By boat												
	U. P. of Agra and Oudh	.....	.....	81	14	949	3	.....	4	.....	.....	.....
	.....	1,497,309	683,220	8,701	336	180,646	2,095	1,062	2,445	19,764	2,45,800	.....
	.....	359,747	14,546	108	.....	1,378	184	48,275	345	7,710	4,05,563	.....
By sea												
	.....	4,106,044	2,925	2,378	1	255,176	166,898	.....	6,140	.....	.....	.....
	.....	7,321,996	1,435,333	911,170	30,542	2,220,888	280,426	22,880,801	78,164	91,864	2,03,84,234	972
	.....	8,678,017	771,090	2,492,076	14,379	2,279,687	167,363	26,132,292	44,292	103,884	1,80,77,422	4,082
Total												
	.....	2,415,541	696,269	4,542,787	68,632	2,048,606	194,608	20,665,518	26,001	162,974	1,24,47,261	1,981

Routes		JUTE		Lao	OILSEEDS		Silk, raw	SUGAR		Tea Indian	TOBACCO	
		Raw (d)	Gunny bags (e)		Linseed	Rape and mustard		Refined	Unrefined		Unmanufactured	Manufactured
By rail	E. I. Railway...	Bales of 400 lbs 12,944	No. 418,828	Mds 94,937	Mds 680,790	Mds 720,492	Mds 8	Mds 392	Mds 12,441	Mds 837	Mds 1,682	Mds 4,367
	E. B. Railway (including B. C. Railway)	365,634	209,387	7,553	32,796	76,470	562	...	41,082	279,851	419,816	1,478
	A.-B. Railway...	44	19,886	305	8,827	44	...	1	...	96,080	...	21
	B.-N. Railway	117	156,866	78,090	60,862	9,821	...	9,207	12,208	1,729	24,217	1,289
	B. and N.-W. Railway	4,786	8,928	...	1,752,639	178,908	...	1,415	9,648	57	16,811	2
	D. S. Railway	...	...	...	...	...	...	...	...	74,647	...	...
	Kalighat-Falta Railway	...	...	...	...	...	...	...	...	...	...	...
	Howrah-Amra and Howrah-Seakhala Light Railways	963	18,375	...	30	...	...	8	267	...	7	7
	Bengal and Bihar	341,740	66,994	23	7,607	9,049	142	393	2,916	8,926	226	33
	Orissa	399	4,961	...	144	8,971	...	129	...	8,237	8,237	8,237
Assam	37,320	17,807	4,323	54,816	54,816	41	3	267,666	...	25	25	
U. P. of Agra and Oudh	...	328	...	...	327	...	692	...	...	...	...	
By boat	...	63,275	126,225,271	...	8,072	9,468	...	397	61,061	1	11,288	...
By road	...	8,392	612,996	...	64	...	...	7,940	18,717	...	2,926	2,072
By sea	...	12,351	12,351	18,886	1	815	...	496	1,831	48	18,316	768
Total	1919	668,494	127,779,430	204,137	2,661,648	1,066,472	742	21,123	180,123	726,042	494,630	19,247
	1918	1,694,168	145,888,635	175,225	978,881	1,143,692	826	75,404	192,668	806,965	282,772	26,143
	1917	618,206	146,877,045	222,760	692,891	1,426,680	1,335	101,983	147,972	648,697	265,726	25,40

(a) One maund of paddy is equivalent to 25 seers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mills outside the Calcutta block, which are 246,751 bales, but includes imports into the Kidderpore Dock, namely, 25,976 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coast-wise) in the four months, April to July, 1919.*

	COTTON TWIST AND YARN		COTTON PIECE-GOODS		Kerosene oil	Salt
	Foreign	Indian	Foreign	Indian		
<b>FOREIGN—</b>	Mds	Mds	Rs	Rs	Mds	Mds
From United Kingdom ... ..	5,802	.....	2,40,74,881	.....	5	482,061
„ Other countries ... ..	2,720	.....	70,67,516	.....	694,997	1,704,177
Total ...	8,522	.....	4,11,42,377	.....	694,702	2,186,238
<b>COASTWISE—</b>						
From British Ports in—						
Bihar and Orissa ... ..	14	.....	.....	.....	.....	.....
Bombay ... ..	1,009	8,840	2,88,968	5,76,383	.....	.....
Madras ... ..	.....	146	8,000	8,322	.....	.....
Burma ... ..	163	61	17,88,076	1,05,400	966,735	.....
Total ...	1,186	9,047	20,83,040	6,89,996	966,735	.....
<b>GRAND TOTAL</b> ... { 1919 ...	9,708	9,047	4,32,25,417	6,89,996	1,661,437	2,186,238
... { 1918 ...	39,963	13,433	5,98,34,383	37,00,747	1,739,145	2,499,396
... { 1917 ...	26,856	183	7,81,08,806	7,768	1,620,739	2,324,163



TABLE V

*Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the four months, April to July, 1919.*

	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat flour	Gram and pulses	Other food-grains	Total				
<i>Coastwise—</i>	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.
To British Ports in—												
Bengal ...	340	.....	340	.....	36	36	.....	310	.....	11	647	4,780
Bihar and Orissa	30,068	.....	30,068	464	1,080	3,069	.....	24,691	.....	.....	1,460	.....
Madras ...	943,496	114,306	983,776	4,407	594	339,693	80	1,280,380	.....	.....	40	.....
Burma ...	3,784	.....	3,784	86,736	136,407	93,671	15,861	278,478	779,137	163	60,780	6,93,916
Total ...	986,480	114,306	987,898	65,636	128,347	438,367	15,781	1,563,620	779,137	173	62,786	6,98,643
<i>Foreign—</i>												
To United Kingdom	5	.....	5	80	.....	2,919	.....	3,004	2,103	3,396	.....	.....
„ Other countries	786,611	.....	786,611	6,633	23,538	169,983	11,876	997,600	2,764,568	23,639	13,463	51,730
Total ...	786,616	.....	786,616	6,713	23,538	171,901	11,876	1,000,604	2,766,671	28,035	13,463	51,730
<i>GRAND TOTAL</i>												
1919 ...	1,673,096	114,306	1,744,474	53,369	151,765	608,368	27,657	2,464,633	4,546,818	29,198	76,248	6,60,376
1918 ...	1,771,317	.....	1,771,317	440,013	133,201	548,566	16,608	2,921,593	1,144,389	10,041	26,467	5,10,913
1917 ...	270,424	21	270,437	22,213	201,014	304,649	17,030	986,443	7,746,802	24,799	27,892	15,60,563

	Indigo	JUTE		Lao	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO	
		Raw	Gunny bags (b)		Linseed	Rape and mustard		Refined	Un-refined		Un-manufactured	Manufactured
<i>Coastwise—</i>	Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
To British Ports in—												
Bengal ...	.....	.....	633	.....	.....	.....	.....	1,101	17	2	86	27
Bihar and Orissa	.....	.....	4,700	.....	.....	136	.....	470	62	.....	1,107	107
Madras ...	319	9	94,900	108	.....	1,284	.....	20,419	.....	.....	.....	.....
Burma ...	.....	118	12,681,118	143	.....	3,093	.....	18,807	615	6,213	84,935	1,661
Total ...	319	127	12,783,261	248	.....	4,383	.....	20,887	694	6,215	86,128	1,715
<i>Foreign—</i>												
To United Kingdom	1,172	286,681	42,222,300	49,530	1,294,036	4,108	826	3	.....	748,323	11,263	17
„ Other countries	3,920	291,262	264,206,202	110,026	509,639	10,632	804	3,723	4	44,363	11,753	1,878
Total ...	5,101	577,943	267,201,002	159,548	1,802,675	14,740	1,630	5,725	4	792,678	23,015	1,895
<i>GRAND TOTAL</i>												
1919 ...	5,320	578,070	280,964,833	159,796	1,802,675	19,132	1,640	56,312	608	794,793	70,563	2,210
1918 ...	16,483	722,260	267,661,191	146,940	484,515	133,464	1,292	5,099	119	862,334	56,723	1,969
1917 ...	12,194	217,537	414,990,603	148,330	290,786	95,931	1,063	1,476	702	691,275	92,995	2,203

(a) One maund of paddy is equivalent to 25 seers of rice.  
(b) Including gunny cloth, 2 yards of cloth = 1 bag.



TABLE VI

**Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the four months, April to July, 1919.**

Whither exported	COTTON TWIST & YARN		COTTON PIECEGOODS*		Gunny bag†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budge-Budge	
<b>BENGAL</b>	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
Burdwan ... ..	391	3,834	17,60,784	1,10,508	398,001	14,084	64,906	83,977
Birbhum ... ..	93	3,888	9,30,483	89,286	148,884	97	17,394	66,841
Bankura ... ..	119	3,834	3,01,000	800	76,840	43	...	36,463
Midnapur ... ..	6,098	5,349	19,46,791	1,40,528	208,914	9,343	32,317	110,688
Hooghly ... ..	2,398	146	6,24,074	70,692	174,163	23,888	69,136	79,910
24-Parganas ... ..	590	1,189	3,22,760	1,84,243	489,943	38,649	24,700	84,388
Nadia ... ..	1,316	14,806	31,52,146	3,34,433	321,497	2,247	33,139	116,033
Murshidabad ... ..	123	4,277	18,12,830	1,32,768	368,930	241	40,377	90,799
Jessore ... ..	943	3,965	70,08,348	3,10,348	167,977	4,320	23,313	85,346
Khulna ... ..	1,364	647	6,30,747	3,08,804	142,353	3,217	21,978	26,119
Rajshahi ... ..	24	376	16,76,033	1,87,544	124,193	1,023	11,080	34,235
Dinajpur ... ..	...	851	12,60,339	3,56,724	160,474	619	19,468	74,641
Jalpaiguri ... ..	148	2,171	17,36,310	4,19,316	169,389	1,408	13,780	69,678
Darjeeling ... ..	271	884	13,47,974	1,06,630	94,218	433	19,460	46,397
Kangpur ... ..	309	1,419	33,26,989	6,06,586	123,000	1,014	26,327	149,773
Bogra ... ..	18	846	19,33,933	11,09,716	110,377	1,967	34,337	68,708
Pabna ... ..	3,310	2,524	16,60,437	7,43,936	187,370	240	55,600	67,638
Malda ... ..	30	2,533	12,34,589	3,27,530	118,692	86	603	20,197
Oooch Behar ... ..	56	393	3,38,374	1,00,192	78,465	108	5,741	23,649
Dacca ... ..	7,374	3,476	33,60,820	6,38,642	100,204	10,153	337,008	182,339
Mymensingh ... ..	2,991	3,073	19,83,168	20,17,921	48,462	186	26,426	133,676
Faridpur ... ..	5,613	1,136	10,31,023	6,46,510	144,866	4,490	17,634	97,003
Bakarganj ... ..	5,494	70	6,61,866	7,84,516	212,869	1,747	30,677	44,754
Tippera (including Hill Tippera) ...	1,920	6,906	17,94,396	41,882	100,123	38	...	23,897
Noakhali ... ..	1,401	4,189	6,68,187	1,71,476	34,231	56	...	739
Chittagong ... ..	3,411	140	1,96,835	1,27,380	158,670	23	...	758
Chittagong Port ... ..	40	311	10,06,715	2,31,092	4,531	...	...	16
<b>Total of Bengal</b> ... ..	<b>44,774</b>	<b>68,938</b>	<b>3,81,32,635</b>	<b>97,48,029</b>	<b>4,682,616</b>	<b>117,381</b>	<b>629,686</b>	<b>1,627,337</b>
<b>OTHER PROVINCES AND PLACES</b>								
Bihar and Orissa A. ... ..	6,373	38,968	1,81,53,938	50,08,639	4,823,349	4,040	463,560	883,106
Assam ... ..	3,886	4,656	73,43,688	18,37,767	728,365	6,133	10,692	320,968
U. P. of Agra and Oudh ... ..	691	1,486	1,16,62,696	20,67,164	8,423,309	1,128	390,076	7,308
Punjab ... ..	1,637	964	69,11,899	1,39,748	7,326,548	30	23,160	6
Sind and British Baluchistan ... ..	...	...	1,06,769	...	1,397,864	...	...	...
Central Provinces and Berar ... ..	16	387	6,81,877	88,444	948,348	763	6,663	2,400
Bombay ... ..	94	340	6,84,057	63,628	3,886,911	1,991	176	...
Madras ... ..	1,178	3,682	3,73,063	2,97,517	2,917,464	2,679	...	119
Burma ... ..	5,633	60,730	23,68,439	6,93,916	13,681,118	...	...	346
Rajputana and Central India ... ..	28	168	6,94,164	21,320	747,653	1,466	30,469	2
Kashmir State ... ..	47	1	1,953	...	...	...	...	...
Nizam's Territory ... ..	...	3	1,71,501	960	349,339	3,614	...	...
Mysore ... ..	...	...	8,501	1,323	161,827	...	...	...
Port Blair ... ..	...	547	6,800	4,730	639	...	...	...
<b>GRAND TOTAL</b> { 1919 ... ..	<b>65,166</b>	<b>180,920</b>	<b>8,73,38,788</b>	<b>1,98,42,963</b>	<b>46,737,623</b>	<b>139,002</b>	<b>1,732,606</b>	<b>3,941,691</b>
1918 ... ..	<b>76,193</b>	<b>180,963</b>	<b>8,68,67,769</b>	<b>76,40,930</b>	<b>46,184,114</b>	<b>103,017</b>	<b>1,646,415</b>	<b>3,626,418</b>
1917 ... ..	<b>63,731</b>	<b>149,702</b>	<b>8,16,86,084</b>	<b>78,61,467</b>	<b>35,083,676</b>	<b>141,380</b>	<b>1,798,893</b>	<b>3,367,292</b>

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 2 yards of cloth = 1 bag.

The exports of Kerosene oil from Budge-Budge to Calcutta in the four months, April to July, 1919, were 391,490 maunds, as against 390,499 maunds and 287,284 maunds in the corresponding periods of 1918 and 1917, respectively.



TABLE VII

*Statement of the Routes by which the Articles enumerated in Table No. VI were exported from the Calcutta Trade Block in the four months, April to July, 1919*

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny-bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budge-Budge	
	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
E. I. Railway ...	5,698	25,932	2,03,49,344	28,13,436	5,327,352	13,837	548,000	501,931
E. B. Railway (including B. O. Railway)	5,081	40,392	2,28,35,609	61,62,988	2,786,349	16,319	280,941	1,024,029
A. B. Railway ...	287	9,984	69,11,743	5,20,354	115,374	1,363	196	61,869
B. N. Railway ...	677	21,288	25,60,474	7,27,946	1,712,447	4,243	400	222,626
B. & N. W. Railway ...	80	6,489	17,4,52,668	27,74,125	2,462,132	848	204,480	190,631
O. & R. Railway ...	261	52	26,46,621	1,69,684	686,184	929	166,292	27
Howrah-Amra and Howrah-Bankura Light Railways	922	...	2,06,149	...	24,426	4,639	...	13,027
By rail ...								
N. W. Railway ...	461	323	12,19,101	11,543	7,692,566	17	8,208	...
G. I. P. Railway ...	167	389	12,41,729	72,683	4,029,484	2,242	2,814	3
B. R. & C. I. Railway ...	111	183	6,41,031	9,748	1,067,923	164	1,633	...
M. & S. M. Railway ...	868	2,878	2,30,024	1,27,892	2,172,041	2,737	...	20
S. I. Railway ...	...	106	233	42,246	546,079	...	...	...
J. B. Railway ...	...	9	1,89,712	3,208	96,022	...	426	...
N. G. B. Railway ...	...	2	1,71,803	960	1,28,457	3,814	...	...
Other Railways ...	24	3	2,06,618	69,612	99,948	670	15,294	6,788
By river steamer ...								
Bengal ...	26,591	8,913	1,02,72,494	29,24,177	960,712	12,102	265,544	242,000
Bihar and Orissa ...	542	701	2,19,991	77,622	1,521,879	9	...	608
Assam ...	5,494	1,915	27,27,818	14,49,510	478,224	2,204	6,669	107,292
U. P. of Agra and Oudh ...	22	6	72,270	10,684	177,028	28	...	...
By boat ...	2,262	...	2,55,460	12,100	196,140	29,117	116,863	299,991
By road ...	1,621	178	4,06,591	2,24,822	161,867	40,000	2,893	24,480
By sea ...	6,947	62,786	22,72,201	5,96,646	12,762,251	...	6,080	6,417
Total ...								
1919 ...	65,164	180,920	8,78,29,723	1,99,42,963	46,727,822	129,002	1,723,466	2,941,591
1918 ...	76,182	120,863	8,66,67,769	76,40,920	45,184,114	106,017	1,546,415	2,628,416
1917 ...	69,721	149,702	8,16,26,084	76,81,467	25,022,676	141,250	1,798,692	2,227,222

\* The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 2 yards of cloth = 1 bag.



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 25th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN--		REMARKS.
						Rise.	Fall.	1917.	1919.	
Ganges	Monghyr ...	19th Sept. 1919	6 A.M. ...	20.47'	101.83'	122.30'	...	1.20'	120.50'	117.50'
	... { Rajmahal ...	19th "	6 "	23.80'	56.319'	80.119'	...	1.20'	80.31'	77.16'
	... { Goalundo ...	19th "	8 hours ...	23.20'	...	...	...	0.20'	21.00'	22.40'
Brahmaputra	Gauhati ...	19th "	8 A.M. ...	22.00'	148.76'	170.76'	...	0.10'	167.26'	174.66'
	... { Serajganj ...	19th "	12 hours ...	37.80'	...	...	...	0.10'	...	...
	... { Dibrugarh ...	19th "	8 A.M. ...	17.00'	...	...	0.50'	...	...	...
Meghna	Bhairab Bazar ...	19th "	6 hours ...	15.75'	1.61'	17.36'	0.17'	...	...	...
	... { Chandpur ...	19th "	...	...	1.61'	...	...	...	...	...
	... { Fenchuganj ...	19th "	7 A.M. ...	24.80'	...	...	0.05'	...	...	...
Dhaleswari	Sabhar ...	19th "	7 "	...	- 8.62'	...	...	...	...	...
Bhagirathi	... Swarupganj ...	19th "	6 "	28.47'	1.509'	29.979'	...	0.03'	24.83'	27.58'
Damodar	... Edilpur ...	19th "	6 "	9.17'	92.58'	101.75'	Steady	...	...	...
-Lakhya	... Narayanganj ...	19th "	...	21.42'	- 5.59'	15.83'	...	0.02'	...	...
Madaripur Bil Route	Takerhat ...	19th "	6 A.M. ...	...	- 0.599'	...	...	...	...	...







Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 25th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	Compared with previous day's height.		Height above P. W. D. datum on same date in—		Remarks.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	22nd Sept. 1919	17.87'	101.83'	119.70'	...	1.00'	121.50'	116.00'	
	... { Rajmahal ...	22nd " "	20.50'	56.319'	76.819'	...	0.95'	80.01'	75.26'	
	... { Goalundo ...	22nd " "	21.80'	...	...	...	0.70'	20.70'	21.70'	
Brahmaputra	Gauhati ...	22nd " "	23.00'	148.76'	171.76'	0.60'	...	169.01'	175.16'	
	... { Serajganj ...	22nd " "	37.50'	...	...	Steady	...	...	...	
	... { Dibrugarh ...	22nd " "	17.90'	...	...	0.20'	...	...	...	
Meghna	Bhairab Bazar ...	22nd " "	15.75'	1.61'	17.36'	Steady	...	...	...	
	... { Chandpur ...	22nd " "	...	1.61'	...	...	...	...	...	
	... { Fenchuganj ...	22nd " "	25.30'	...	...	0.05'	...	...	...	
Dhaleswari	Sabbar ...	22nd " "	...	-8.62'	...	...	...	...	...	
Bhagirathi	... { Swarupganj ...	22nd " "	27.49'	1.509'	28.999'	...	0.49'	24.18'	25.65'	
Damodar	... { Edilpur ...	22nd " "	6.58'	92.58'	99.16'	...	0.84'	...	...	
Lakhya	... { Narayanganj ...	22nd " "	21.12'	-5.59'	15.53'	...	0.13'	...	...	
Madaripur Bil Route	Takerhat ...	22nd " "	...	-0.599'	...	...	...	...	...	



Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday the 25th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	21st Sept. 1919	6 A.M. ...	18.87'	101.83'	120.70'	...	0.60'	120.50'	116.30'
	... Rajmahal ...	21st "	6 "	21.45'	56.319'	77.769'	...	1.05'	79.91'	75.86'
	... Goalundo ...	21st "	8 hours ...	22.50'	...	...	...	0.50'	20.70'	21.90'
Brahmaputra	Gauhati ...	21st "	8 A.M. ...	22.40'	148.76'	171.16'	0.60'	...	169.01'	175.26'
	... Seraiganj ...	12st "	12 hours ...	37.50'	...	...	0.20'	...	...	...
	... Dibrugarh ...	21st "	8 A.M. ...	17.70'	...	...	0.30'	...	...	...
Meghna	Bhairab Bazar	21st "	6 hours ...	15.75'	1.61'	17.36'	0.04'	...	...	...
	... Chandpur ...	21st "	...	...	1.61'	...	...	...	...	...
	... Fenchuganj ...	21st "	7 A.M. ...	25.25'	...	...	0.15'	...	...	...
Dhaleswari	... Sabbar ...	21st "	7 "	...	-8.62'	...	...	...	...	...
Bhagirathi	... Swarupganj ...	21st "	6 "	27.98'	1.509'	29.489'	...	0.32'	24.48'	26.62'
Damodar	... Edilpur ...	21st "	6 "	7.42'	92.58'	100.00'	...	2.25'	...	...
Lakhya	... Narayanganj	21st "	...	21.25'	-5.59'	15.66'	...	0.21'	...	...
Madaripur Bil Roudé	... Takerhat ...	21st "	6 A.M. ...	...	-0.599'	...	...	...	...	...







Statement showing the daily gauge readings of certain rivers at the stations named below for week ending Thursday, the 25th September 1919

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	24th Sept. 1919	6 A.M.	16-27'	101-83'	118-10'	...	1-50'	122-70'	114-90'
	Rajmabal ...	24th "	6 "	19-25	56-319'	75-569'	...	0-60'	80-96'	74-26'
	Goalundo ...	24th "	8 hours	21-00'	...	...	...	0-30'	20-70'	21-40'
Brahmaputra	Gauhati ...	24th "	8 A.M.	23-30'	148-76'	172-06'	Steady	...	172-76'	174-46'
	Serajganj ...	24th "	12 hours	37-40'	...	...	...	0-10'	...	...
	Dibrugarh ...	24th "	8 A.M.	16-70'	...	...	...	0-40'	...	...
Meghna	Bhairab Bazar ...	24th "	6 hours	15-58'	1-61'	17-19'	...	0-09'	...	...
	Chandpur ...	24th "	...	...	1-61'	...	...	...	...	...
	Fenchuganj ...	24th "	7 A.M.	25-25'	...	...	Steady	...	...	...
Dhaleswari	Sabhar ...	24th "	7 "	...	-8-62'	...	...	...	...	...
Bhagirathi	Swarupganj ..	24th "	6 "	25-72'	1-509'	27-229'	...	1-06'	24-33'	23-05'
Damodar	Edilpur ...	24th "	6 "	5-75'	92-58'	98-33'	...	0-50'	...	...
Lakhya	Narayanganj	24th "	...	...	-5-59'	...	...	...	...	Not reported. Change damaged by storm.
Madaripur Bil Route	Takerhat ...	24th "	6 A.M.	...	-0-599'	...	...	...	...	...







## IRRIGATION DEPARTMENT

Statement showing heights over mean sea-level and low water in the August 1919, and the highest reading of each gauge over

RIVER GANGES.											
Date.	Mirzapore. Zero of gauge 206'22 ft.		Benares. Zero of gauge 116'80 ft.		Buxar. Zero of gauge 167'55 ft.		Dinapore. Zero of gauge 124'33 ft.		Monghyr. Zero of gauge 101'83 ft.(a)		
	Distance in miles.	From Allahabad 96.	From Allahabad 124.	From Mirzapur 48.	From Benares 90.	From Benares 177.	From Buxar 87.	From Benares 287.	From Dinapore 110.		
	Highest gauge reading.	2nd September 1916. 265'67.	2nd September 1916. 244'30.	3rd and 4th Septem- ber 1916. 302'80.	5th September 1901 and 4th August 1917. 169'72.	5th September 1901 and 4th August 1917. 169'72.					
	Lowest gauge reading.	20th June 1897. 187'80.	1st May 1877. 182'80.	10th to 14th May 1914. 160'80.	20th April 1913. 135'18.	29th April to 6th May 1914. 96'00.					
		Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
1	2	3	4	5	6	7	8	9	10	11	12
1st	...	30'42	236'64	25'08	221'88	24'67	192'22	26'60	160'93	19'27	121'10
2nd	...	29'92	236'14	24'42	221'22	24'17	191'72	26'20	160'43	18'57	120'40
3rd	...	30'58	236'80	24'83	221'63	24'00	191'55	26'30	160'53	18'27	120'10
4th	...	31'75	237'97	26'42	223'22	25'75	192'30	26'10	160'33	18'17	120'00
5th	...	31'50	237'72	26'67	223'47	25'33	192'88	26'80	161'03	18'27	120'10
6th	...	32'92	239'14	27'67	224'47	25'58	193'13	26'90	161'13	18'67	120'50
7th	...	37'00	243'22	31'83	228'63	27'59	195'05	27'60	161'83	18'97	120'80
8th	...	41'60	247'72	37'17	233'97	30'17	197'72	28'60	162'83	19'57	121'40
9th	...	43'92	250'14	39'25	236'05	30'75	198'30	33'30	167'53	21'27	123'10
10th	...	45'00	251'22	40'00	236'80	30'92	198'47	35'20	169'43	23'77	125'60
11th	...	48'25	254'47	41'33	238'13	31'17	198'72	34'40	168'63	24'67	126'50
12th	...	49'75	255'97	42'83	239'63	31'50	199'05	33'30	167'53	25'27	127'10
13th	...	48'25	254'47	43'50	240'30	31'92	199'47	33'00	167'23	25'27	127'10
14th	...	44'42	250'64	40'67	237'47	32'00	199'55	33'70	167'93	25'57	127'40
15th	...	39'92	246'14	36'00	232'80	31'75	199'30	33'90	168'13	25'87	127'70
16th	...	40'00	246'22	35'17	231'97	30'75	198'30	33'30	167'53	26'17	128'00
17th	...	41'92	248'14	37'33	234'13	30'58	198'13	33'30	167'53	26'17	128'00
18th	...	43'83	250'05	39'83	236'63	31'00	198'55	32'40	166'63	25'97	127'80
19th	...	45'50	251'72	41'00	237'80	31'50	199'05	32'20	166'43	25'57	127'40
20th	...	44'67	250'89	40'67	237'47	31'67	199'22	32'30	166'53	25'47	127'30
21st	...	43'17	249'39	39'08	235'88	31'67	199'22	32'60	166'83	25'87	127'20
22nd	...	43'25	249'47	38'75	235'55	31'42	198'97	32'50	166'73	25'37	127'20
23rd	...	43'25	249'47	38'75	235'55	31'33	198'88	32'50	166'83	25'27	127'10
24th	...	42'50	248'72	38'17	234'97	31'33	198'88	32'70	166'93	25'27	127'10
25th	...	41'33	247'55	36'92	233'72	31'08	198'63	32'40	166'63	25'27	127'10
26th	...	40'50	246'72	35'67	232'47	30'67	198'22	31'80	166'03	24'97	126'80
27th	...	40'92	247'14	35'92	232'72	30'58	198'13	31'00	165'23	24'67	126'50
28th	...	42'42	248'64	37'67	234'47	31'00	198'55	30'70	164'93	24'27	126'10
29th	...	43'67	249'89	39'00	235'80	31'33	198'88	30'70	164'93	23'77	125'60
30th	...	42'58	248'80	38'25	235'05	31'42	198'97	31'30	165'53	23'67	125'50
31st	...	42'83	249'05	38'00	234'80	31'25	198'80	31'10	165'33	23'67	125'50

\* New gauge fixed at Rajmahal from 1st June 1910 in place of the gauge at Sahibganj. The zero of gauge at Rajmahal 56'46 ft. above M.S.-L. from 10th February 1916 to 15th June 1918. From the 16th June 1918 to 6th April 1919 April 1919 it is 56'819 ft. above M.S.-L.

+ To compare the reduced levels shown in these monthly printed statements before and after the 1st June 1908, 5'78 ft. October 1909).

(a) A new gauge fixed at Monghyr on 16th July 1914.

(b) From the 1st November 1916 the zero of gauge was 2'48 ft. above M.S.-L. Previous to that the zero was at M.S.-L. zero is 1'509 ft. above M.S.-L.

(c) From the 26th January 1916 to 4th April 1919 the zero of gauge at Berhampore was 80'99 ft. above M.S.-L. From

(d) From the 26th October 1916 a temporary wooden gauge with its zero at 49'00 ft. above M.S.-L. was erected at 3rd June 1919. From 4th June 1919 the zero is 1'51 ft. above M.S.-L.

(e) Gauge shifted from Babik Goalundo to Fakirabad from 30th June 1919.

The 25th September 1919.



## MENT, BENGAL.

*rivers Ganges, Bhagirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge-reading since 1876.*

						RIVER BHAGI- RATHI.		RIVER JALANGI.		RIVER BRAHMA- PUTRA.	
Rajmahal. <sup>a</sup> Zero of gauge 56'31½ ft.		Rampur-Boalia. Zero of gauge 1'51 ft. (d)		Goalundo. (e) Zero of gauge is at mean sea-level.		Berhampore. Zero of gauge 32'49½ (c)		Sarupganj. (b) Zero of gauge 1'509.		Gauhati. Zero of gauge 148'76 ft.	
From Benares 407.	From Moughyr 120.	From Benares 471.	From Rajmahal 84.	From Benares 591.	From Rampur- Boalia 120.						
19th August 1913. 83'46.		26th August 1879. 89'33.		28th August 1906 and 14th Septem- ber 1913. 35'78.7		14th August 1890. 84'70.		26th September 1900. 85'02.		26th August 1906. 181'11.	
2nd May 1910. 84'63.		23rd April 1886. 87'63.		23th March 1910. 9'25.		19th to 24th April 1917 32'40.		28th March 1915. 2'13.		9th February 1903. 142'46.	
Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
13	14	15	16	17	18	19	20	21	22	23	24
22'45	78'769	55'29	56'80	23'20	23'20	18'20	50'699	23'29	24'789	21'30	170'06
22'00	78'819	54'89	56'40	23'10	23'10	17'60	50'099	22'70	24'209	20'60	169'36
21'45	77'769	54'49	56'00	22'50	22'50	16'60	49'099	22'02	23'529	19'80	168'56
21'20	77'519	54'09	55'60	22'00	22'00	16'60	49'099	21'20	22'709	19'00	167'76
21'15	77'469	53'79	55'30	21'50	21'50	15'80	48'299	20'48	21'989	18'30	167'06
21'20	77'519	53'89	55'40	21'10	21'10	15'70	48'199	19'87	21'379	18'00	166'76
21'25	77'569	53'89	55'40	21'40	21'40	16'00	48'499	19'51	21'019	17'80	166'56
21'60	77'919	54'09	55'60	21'00	21'00	16'30	48'799	19'90	21'409	17'90	166'66
22'10	78'419	54'49	56'00	20'70	20'70	16'60	49'099	20'57	22'079	17'70	166'46
23'95	80'269	55'24	56'75	20'60	20'60	17'40	49'899	20'98	22'489	17'70	166'46
25'10	81'419	56'69	58'20	21'00	21'00	20'00	52'499	21'57	23'079	17'60	166'36
25'80	82'119	57'69	59'20	21'60	21'60	21'20	53'699	22'86	24'369	17'70	166'46
26'40	82'719	58'29	59'80	21'90	21'90	21'00	53'499	24'56	26'169	17'90	166'66
26'65	82'969	58'79	60'30	22'10	22'10	22'60	55'099	26'10	27'609	17'80	166'56
26'80	83'119	58'99	60'50	22'30	22'30	23'00	55'499	27'01	28'819	17'40	166'16
27'00	83'319	59'34	60'85	22'40	22'40	23'40	55'899	27'38	28'889	18'00	166'76
27'10	83'419	59'89	60'90	22'50	22'50	23'70	56'199	27'55	29'059	18'20	166'96
27'15	83'469	59'54	61'05	22'50	22'50	23'90	56'399	27'52	29'029	18'50	167'26
27'20	83'519	59'69	61'20	22'60	22'60	24'10	56'599	27'42	28'929	18'90	167'66
27'15	83'469	59'94	61'45	22'60	22'60	24'10	56'599	27'58	29'089	18'80	167'56
27'00	83'319	59'89	61'40	22'50	22'50	24'00	56'499	27'54	29'049	18'20	166'96
26'85	83'169	59'89	61'40	22'50	22'50	23'90	56'399	27'54	29'049	17'40	166'16
26'80	83'119	59'77	61'28	22'50	22'50	23'80	56'299	27'59	29'099	17'10	165'86
26'70	83'019	59'69	61'20	22'40	22'40	23'70	56'199	27'60	29'109	16'60	165'36
26'55	82'869	59'64	61'15	22'40	22'40	23'60	56'099	27'58	29'089	16'10	164'86
26'50	82'819	59'49	61'00	22'50	22'50	23'40	55'899	27'55	29'059	15'70	164'46
26'30	82'619	59'44	60'95	22'70	22'70	23'40	55'899	27'49	28'999	15'00	163'76
26'20	82'519	59'33	60'90	22'50	22'50	23'20	55'699	27'39	28'899	14'70	163'46
25'95	82'269	59'29	60'80	22'30	22'30	23'00	55'499	27'25	28'759	14'60	163'36
25'60	81'919	58'99	60'50	22'20	22'20	22'90	55'399	27'23	28'739	14'90	163'66
25'30	81'619	58'59	60'10	22'00	22'00	22'80	55'299	27'14	28'649	15'10	163'86

was 56'46 ft. above M.S.-L.; up to 26th October 1915 and 60'00 ft. above M.S.-L. from 27th October 1915. Thereafter was again it was 54'81 ft. above M.S.-L., from 7th to 16th April 1919 it was 56'32 ft. above M.S.-L. and from 16th should be deducted from the former or added to the latter (vide Bengal Government letter No. 1083T.—I., dated the 12th

dating back 15th July 1897. Zero was at M.S.-L. from 1st April 1918 to 18th April 1919. Again from 14th April 1919 the 5th April 1919 the zero is 32'499 ft. above M.S.-L.

Rampur-Boalia in place of the permanent gauge washed away. The zero of gauge was at M.S.-L. from 25th June 1918, till

G. J. ST. C. SEDGLEY,

Under-Secy. to the Govt. of Bengal.



**Vital Statistics of the Districts excluding Towns, of Bengal, with a population**

Division.	No.	Districts.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still-births).	Still-born number registered.	Cholera.	Small-pox.	Plague.
Burdwan ...	1	Burdwan ...	728,894	736,140	1,465,034	1,925	5	206	29	...
	2	Birbhum ...	463,838	471,635	935,473	1,203	17	170	10	...
	3	Bankura ...	534,150	547,314	1,081,464	1,870	1	132	17	...
	4	Midnapore ...	1,386,921	1,389,476	2,776,397	4,165	110	231	86	...
	5	Hooghly and Serampore.	481,989	484,729	966,718	1,090	3	42	78	...
	6	Howrah ...	369,595	372,124	741,719	1,302	8	78	64	...
Presidency ...	7	24-Parganas ...	1,005,789	941,802	1,947,591	2,413	32	36	41	...
	8	Nadia ...	782,806	772,382	1,555,188	1,977	37	17	72	...
	9	Murshidabad ...	639,301	657,788	1,297,089	1,982	87	96	4	...
	10	Jessore ...	901,092	857,172	1,758,264	2,055	80	123	21	...
	11	Khulna ...	695,794	647,074	1,342,868	2,234	103	128	3	...
	12	Rajshahi ...	742,149	715,032	1,457,181	1,860	118	93	81	...
Rajshahi ...	13	Dinajpur ...	880,228	791,690	1,671,918	2,607	107	137	976	...
	14	Jalpaiguri ...	482,681	408,214	890,895	1,904	189	606	58	...
	15	Darjeeling ...	130,463	116,082	246,545	527	30	288	6	...
	16	Rangpur ...	1,244,208	1,124,693	2,368,901	3,520	246	73	796	...
	17	Bogra ...	502,526	481,041	983,567	1,105	67	18	260	...
	18	Pabna ...	700,299	684,236	1,384,535	1,698	84	12	179	...
Dacca ...	19	Malda ...	479,728	486,787	966,515	1,522	30	49	71	...
	20	Dacca ...	1,395,861	1,428,114	2,823,975	3,115	171	35	118	...
	21	Mymensingh ...	2,274,431	2,136,477	4,410,908	5,366	322	350	292	...
	22	Faizpur ...	1,066,393	1,033,317	2,099,710	2,629	103	36	59	...
	23	Bakarganj ...	1,222,824	1,171,618	2,394,442	3,805	53	142	11	...
	24	Chittagong ...	704,058	775,609	1,479,667	3,738	813	630	6	...
Chittagong ...	25	Noakhali ...	645,898	656,192	1,302,090	2,457	150	147	55	...
	26	Tippera ...	1,208,642	1,163,792	2,372,434	2,785	212	176	197	...
	27	Chittagong Hill Tracts.							Not under	
Total of month for Bengal ...			21,660,558	21,050,530	42,711,088	60,804	2,528	4,051	3,590	...
Total of corresponding month of previous year ...			...	...	...	94,872	3,918	3,437	786	...
Increase + or decrease - ...			...	...	...	-34,068	-1,290	+614	2,804	...

REMARKS—1. The above table is compiled from returns collected by the thana police officers and submitted to this office by the to the actual.

2. The vital statistics of municipalities with a population of less than 10,000 have been included in this statement with

3. Divisional totals and the birth and death ratios per 1,000 per annum have been omitted from the statement according

CALCUTTA.

The 18th September 1919.



of 10,000 and over, for the month of July 1919.

REGISTERED.											Number.	Districts.
Fever.	Dysentery and Diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.				
					Male.	Female.	Total.	Male.	Female.	Total.		
2,986	75	21	77	351	1,983	1,762	3,745	2,329	1,924	4,253	1	Burdwan.
2,170	10	7	48	151	1,340	1,226	2,566	1,284	1,122	2,406	2	Birbhum.
1,863	45	6	51	353	1,307	1,160	2,467	1,624	1,481	3,105	3	Bankura.
5,044	113	24	150	831	3,434	3,045	6,479	2,995	2,583	5,578	4	Midnapore.
1,587	72	35	60	205	1,031	1,048	2,079	1,503	1,221	2,724	5	Hooghly and Serampore.
821	278	76	86	288	888	803	1,691	750	595	1,345	6	Howrah.
2,705	44	52	141	355	1,780	1,594	3,374	2,416	1,899	4,315	7	24-Parganas.
2,349	7	7	118	245	1,467	1,348	2,815	1,886	1,470	3,356	8	Nadia.
1,941	4	15	96	306	1,306	1,156	2,462	1,936	1,702	3,638	9	Murshidabad.
2,154	3	2	87	181	1,410	1,161	2,571	1,899	1,122	2,521	10	Jessore.
2,978	14	12	118	631	2,026	1,858	3,884	1,605	1,343	2,948	11	Khulna.
2,081	...	7	104	176	1,352	1,190	2,542	2,009	1,780	3,789	12	Rajshahi.
3,061	3	2	82	82	2,339	2,004	4,343	2,368	1,965	4,333	13	Dinajpur.
2,362	214	21	40	126	1,981	1,446	3,427	1,616	1,428	3,044	14	Jalpaiguri.
751	240	8	10	172	804	671	1,475	628	492	1,120	15	Darjeeling.
4,250	...	3	74	92	2,890	2,398	5,288	3,582	2,804	6,386	16	Rangpur.
1,206	5	4	81	98	916	756	1,672	833	667	1,500	17	Bogra.
1,932	4	3	60	109	1,157	1,142	2,299	1,605	1,190	2,795	18	Pabna.
1,694	...	...	48	155	1,049	968	2,017	1,333	1,109	2,442	19	Malda.
2,787	72	13	112	582	2,022	1,637	3,659	2,211	1,760	3,971	20	Dacca.
5,705	43	27	121	727	3,891	3,374	7,265	4,252	3,731	7,983	21	Mymensingh.
2,663	52	15	112	506	1,894	1,549	3,443	1,853	1,487	3,340	22	Faridpur.
4,093	33	8	139	1,160	3,117	2,471	5,588	2,194	1,807	4,001	23	Bakarganj.
5,621	35	1	74	91	3,244	3,214	6,458	3,856	3,997	7,853	24	Chittagong.
2,681	19	...	113	317	1,659	1,673	3,332	2,409	2,314	4,723	25	Nonkhali.
3,850	106	9	102	513	2,757	2,196	4,953	2,043	1,744	3,787	26	Tippera.
registration.											27	Chittagong Hill Tracts.
71,277	1,491	378	2,304	8,803	49,044	42,850	91,894				...	
75,857	1,735	593	2,776	12,027	52,474	44,737	97,211	52,474	44,737	97,211		
-4,580	-244	-215	-472	-3,224	-3,430	-1,887	-5,317					

Civil Surgeons. Taken as a whole the table possesses a relative value, although the figures for individual districts probably only approximate those of the respective districts as per Government of Bengal, Municipal Department, letter No. 1188an., dated the 8th February 1918. to the Government of India, Education Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 20th September 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
14th September	8 A.M.	Zero of gauge at mean sea-level.	62.65	59.61	B. M. on College step corrected (P. W. D.) 64.93.
15th "	8 "		62.45	59.11	
16th "	8 "		62.15	58.81	
17th "	8 "		61.50	58.31	
18th "	8 "		60.80	57.76	
19th "	8 "		59.90	56.81	
20th "	8 "		58.70	56.21	

(a) P. W. D. Datum 6.25 feet above Kidderpur old dock silt.

		Old value.		According to P. W. D. datum.
The previous year	...	Highest water-level	...	66.52 on 30th August 1918
Ditto	...	Lowest	...	41.70 on 21st April 1918
Record	...	Highest	...	69.26 on 26th August 1879
Do.	...	Ditto	...	69.08 on 9th September 1885
Do.	...	Ditto	...	68.80 on 26th August 1906
Do.	...	Ditto	...	68.21 on 26th August 1890
Do.	...	Lowest	...	37.68 on 25th April 1884
Do.	...	Ditto	...	38.18 on 14th—15th April 1883
Do.	...	Ditto	...	39.02 on 21st—22nd April 1897
Do.	...	Ditto	...	39.28 on 6th—7th May 1908

N. B.—The gauge-readings commenced from the 1st August 1887.

**BOALIA,**  
The 20th September 1919.

**S. C. BHATTACHARJI,**  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 20th September 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
14th September	7 A.M.	23.6	23.6	23.5	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpore ghât. Its reduced level is 22.41.
15th "	7 "	23.7	23.7	23.3	
16th "	7 "	23.7	23.7	23.1	
17th "	7 "	23.6	23.6	22.8	
18th "	7 "	23.4	23.4	22.6	
19th "	7 "	23.2	23.2	22.4	
20th "	7 "	23.0	23.0	22.2	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	25.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 13th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	...	3.16 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1909.

**FARIDPUR,**  
The 22nd September 1919.

**R. K. GHOSE,**  
for Subdivisional Officer, P. W. D., Faridpur.



GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 20th September 1919, as compared with the corresponding week of the previous year.*

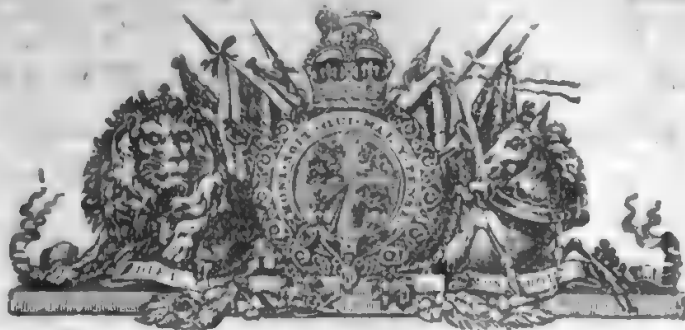
Nature of Cargo.	WEEK ENDING SATURDAY, THE 20TH SEPTEMBER 1919.			WEEK ENDING SATURDAY, THE 21ST SEPTEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	519	54,421	806	780	110,910	1,845
Jute ...	189	85,687*	842	135	51,510†	562
Firewood ...	69	29,325	427	178	64,050	980
Other articles ...	925	244,861	2,643	759	175,560	1,950
Total ...	1,702	414,294	4,718	1,857	402,030	5,337
Empty boats and rafts ...	705	...	1,462	500	...	1,219
GRAND TOTAL ...	2,407	414,294	6,180	2,357	402,030	6,556

\* Weight by canal measurement ... Mds. 94,837½  
Ditto ditto ... 96,200

CALCUTTA,  
The 24th September 1919:

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 8, 1919.

## SUPPLEMENT.

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Weather and Crop Report for the week ending on the 2nd October 1919	1206—1210	Statement of weekly gauge readings on the rivers in Bengal	1216—1217

### REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 27th SEPTEMBER 1919.

THE rainfall during the week was insufficient. The agricultural prospects are favourable. Eighty-eight relief works were open during the week. The number of persons relieved on works was 18,067. The number of persons in receipt of gratuitous relief of all kinds was 7,852, viz., 2,807 on cash doles in 18 unions, 3,683 on paddy husking advances, 782 weavers and 580 better class poor. The grand total of persons relieved was 25,919. The increase in the number of persons on relief works was due to the completion of field operations, and the decrease in the numbers in receipt of cash doles was due to the closure of gratuitous relief in 63 unions. The number of persons relieved on private works was 725. The charitable societies also relieved 400 persons by weekly doles and 900 persons by daily doles and cooked food. During the week eight cases of theft of paddy and rice were reported. Public health is on the whole good. The outbreak of malaria and influenza is reported from certain localities. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5½ to 5¾ seers in the rupee.

M. C. McALPIN,  
Secy. to the Govt. of Bengal.

DARJEELING, the 2nd October 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 2nd October 1919.

**Summary.**—The rainfall during the week was light in the western districts and generally moderate elsewhere. More rain is needed on high lands in West Bengal. Good rainfall in the Eastern Bengal districts during the latter part of September facilitated transplanting of winter rice and steeping of jute. The damage done by the cyclone to standing crops is probably not so great as was originally anticipated. Weeding of winter paddy and steeping and washing of jute are nearing completion. Preparatory tillage for the next spring crops and their sowings have commenced in some districts. The average price of common rice for the Province has slightly risen as compared with that of the previous week. The total number of persons receiving gratuitous relief in Brahmanbaria subdivision of Tippera District was 6,155. The conditions in Bankura are published separately.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
1	24-PARGANAS	0.29	{ 5½ 6½ }	{ 5 6½ }	Transplanting of <i>aman</i> paddy is nearly finished and harvesting of <i>aus</i> paddy continues. Harvesting and steeping of jute continue. Fodder and water are sufficient.
	Diamond Harbour.	(n)	(n)	{ 4½ 5½ }	
	Barrackpore	(n)	(n)	(n)	
	Barasat ...	1.55	4½	4	
	Basirhat ...	0.93	{ 5 5½ }	(n)	
2	NADIA ...	0.46	{ 4½ 6½ }	{ 4½ 6½ }	Prospects of standing crops, including jute, are good. Lands are being prepared for next <i>rabi</i> crops. Steeping and washing of jute still continue.
	Kushtia ...	1.95	4½	4	
	Meherpur ...	1.56	5½	6	
	Chuadanga ...	2.82	{ 4½ 6 }	4½	
	Ranaghat ...	1.00	{ 4½ 6 }	{ 4 6 }	
3	MURSHIDABAD	0.95	5	5	Weather hot and cloudy; rain is wanted for standing crops. Fodder is sufficient. No large import or export.
	Lalbagh ...	0.20	{ 5 5½ }	{ 4½ 6½ }	
	Jangipur ...	(n)	(n)	5½	
	Kandi ...	0.41	5½	5½	
4	JESSORE ...	2.94	{ 5½ 6 }	{ 5½ 6 }	Standing crops are doing well. Condition and prospects of jute are fair. Steeping and washing continue. Fodder and water are sufficient.
	Jhenidah ...	1.60	5½	{ 5½ 6 }	
	Magura ...	3.52	4½	(n)	
	Narail ...	5.28	{ 4½ 5½ }	{ 4½ 5½ }	
	Bangaon ...	4.24	6	6½	

\* Burma rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKKS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
5	KHULNA ...	0.12	{ 4½ 6½ }	6½	Fodder and water are sufficient.
	Satkhira ...	1.49	4	4½	
	Bagerhat ...	0.37	{ 4½ 5½† }	4½ 5½†	
6	BURDWAN ...	1.19	{ 5 6 to 6½† }	5 6½	Weather hot and cloudy. Rain is urgently needed for <i>aman</i> paddy. Harvesting of <i>aus</i> and weeding of <i>aman</i> paddy continue. Large export of rice is reported from Kalna. Stocks of rice at Asansol are reported to be insufficient.
	Asansol ...	1.00	5	5	
	Katwa ...	0.32	5½	5	
	Kalna ...	3.20	4½	4½	
7	BIRBHUM ...	0.60	5	4½	Weather hot and cloudy. Rain is wanted in Sadar subdivision. Prospects of standing crops are fair. Fodder and water are sufficient.
	Rampurhat	1.33	5	4½	
8	BANKURA ...	(n)	{ 6 6½† }	5½	Standing crops are suffering in high lands for want of rain.
	Vishnupur ...	0.15	5½	5½	
9	MIDNAPORE	1.56	{ 5½ 6½† }	5 5½†	Weeding operations of <i>aman</i> paddy is progressing. Prospects of <i>bhadoi til</i> are fair.
	Ghatal ...	0.60	5½	(n)	
	Tamluk ...	1.87	{ 4½ 6½† }	4½ 5½†	
	Contai ...	0.37	6	{ 4½ 5½† }	
10	HOOGHLY ...	0.60	{ 4½ 5½† to 6½† }	4½ 5½† to 6½†	Effects of weather on the growth of the crops are favourable. Fodder is sufficient.
	Serampore ...	0.17	{ 5 6½	5 6½	
	Arambagh ...	0.15	5½	5½	
11	HOWRAH ...	1.88	{ 5 6½† }	4½ 6½†	Weather hot and cloudy. Harvesting of jute continues. Condition is good. Prospects of standing crops are favourable. Fodder is sufficient.
	Ulubaria ...	1.12	{ 5 6½	4½ 6½	
12	RAJSHAHI (RAMPUR-BOALIA).	2.88	4½	4½	Prospects of standing crops are favourable. Harvesting of jute is nearly finished. Burma rice is out of stock. Fodder is sufficient.
	Naogaon ...	0.97	3½	3½	
	Nator ...	0.67	4½	4½	

† Coarse rice.

‡ Burma rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
13	DINAJPUR ...	1.35	4½	4½	Weather seasonable. Prospects of standing crops have improved. Transplantation of winter paddy is finished. Condition of jute is fair. Steeping and washing of jute are going on. Fodder is available. Burma rice is not available. Export continues.
	Thakurgaon	0.99	4½	4½	
	Balurghat ...	(n)	(n)	4	
14	JALPAIGURI	6.30	{ 4½ 5° }	4	Weather seasonable. Washing of jute continues. <i>Haimanti</i> paddy is doing well. Prospects are favourable. Fodder and water are sufficient.
	Alipur ...	14.76	{ 3½ 5° }	3½	
15	DARJEELING	Nil	{ 4½ 5½° }	4½	Maize, potatoes and cadamom are being harvested. Marua is progressing. Stocks of food-grains are inadequate. Fodder and water are sufficient. Cattle-disease is reported from some places.
	Kurseong ...	(n)	(n)	{ 4½ 5½° }	
	Siliguri ...	8.50	{ 3½ 6° }	3½	
	Kalimpong ...	9.26	3½	{ 5° 5½° }	
16	RANGPUR ...	1.40	4	4	Weather seasonable. Harvesting of jute is nearly finished and transplantation of winter paddy is still going on, but more rain is urgently wanted for winter rice. Condition and prospects of jute are good. Weather is not favourable for winter rice. Burma rice is now being sold at Saidpur at Rs. 6.13 per maund. Supplies for the rest of the district have been indented for, but have not yet arrived. Fodder and water are sufficient. Cattle-disease is reported from Lalmonirhat and Kurigram thanas.
	Nilphamari	2.15	4½	3½	
	Kurigram ...	1.34	3½	3½	
	Gaibandha ...	0.70	4½	4	
17	BOGRA ...	3.68	{ 4½ 5½° }	{ 4½ 6° }	Transplanting of winter paddy is finished. Harvesting of jute continues. Prospects are fair.
18	PABNA ...	1.45	{ 4½ 6° }	{ 4½ 6° }	Weather rainy. Effects of recent showers are good on standing crops. Harvesting of jute is not yet completed. There has been no considerable export or import of rice. Condition of cattle and fodder is fair.
	Sirajganj ...	1.86	{ 3½ 5½° }	(n)	

(n) Not reported.

\* Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
19	MALDA	1.20	{ 4½ 5½ }	{ 4½ 5½ }	Preparation of land for <i>rabi</i> crops and sowing of <i>kalai</i> continue. Fodder and water are sufficient.
20	COOCH BEHAR	9.09	7½	7½	Weather rainy and cloudy. Transplantation of <i>haimanti</i> paddy seedlings and washing of <i>jute</i> continue. Fodder is sufficient.
21	DACCA ...	2.15	{ 3½ 5½ }	{ 4 5½ }	**Damage to standing crops, caused by cyclone, not generally serious.
	Manikganj...	(n)	{ 3½ 5½ }	{ 4 5½ }	
	Narayanganj	1.61	{ 3½ 5½ }	{ 3½ 5½ }	
	Munshiganj*	2.20	3½	{ 4 5½ }	
22	MYMENSINGH	6.13	{ 3½ 5½ }	{ 3½ 5½ }	Weather cloudy with occasional wind and showers. Harvesting and steeping of <i>jute</i> are going on. Prospects of standing crops are fair. Fodder is sufficient.
	Jamalpur ...	2.45	{ 3½ 5½ }	{ 3½ 5½ }	
	Tangail ...	4.94	{ 3½ 5½ }	{ 3½ 5½ }	
	Netrakona ...	2.66	{ 3½ 4½ }	{ 4 5½ }	
	Kishorganj...	11.84	{ 3½ 4½ }	{ (n) (n) }	
23	FARIDPUR ...	1.78	{ 4 5½ }	{ 3½ 5½ }	Weather seasonable. Damage done to property and loss of cattle by cyclone not yet fully ascertained. But damage to standing crops probably not serious.
	Goalundo ...	1.25	{ 4 5½ }	{ 4 5½ }	
	Madaripur ...	0.93	3½	(n)	
	Gopalganj†...	(n)	(n)	(n)	
24	BAKARGANJ (BARISAL).	0.69	{ 3½ 4½ 6½ }	{ 4 4½ 6½ }	Fodder is sufficient. Prospects are good.
	Pirojpur ...	0.24	{ 4 6½ }	{ 5½ 5½ }	
	Patuakhali...	2.31	{ 4 5½ }	{ 4 5½ }	
	Dakshin Shabazpur (Bhola).	5.97	{ 3½ 4½ }	{ 3½ 4½ }	

\* Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.

† The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

‡ Annas rice.

\*\* Director of Agriculture's remarks.

1 § Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
25	CHITTAGONG Cox's Bazar	5.16 0.90	{ 5† 6‡† 4‡† 5‡† }	{ 5† 6‡† 4‡† 5‡† }	Prospects of standing crops are good. Transplanting of <i>aman</i> paddy is still going on. Harvesting of <i>aus</i> paddy is finished. <i>Panga</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
26	TIPPERA (COMILLA). Brahmanbaria. Chandpur ...	2.25 3.63 1.31	{ 4‡ 6† 4‡ 5‡† 4‡ 4‡† }	{ 4‡ 6† 4‡ 4‡† 4‡ 4‡† }	Weather rainy. Transplantation of <i>aman</i> paddy is nearly finished. Prospects of <i>aman</i> are hopeful and those of jute are good. <i>Barshall</i> paddy is being harvested. Jute suffered to some extent in Brahmanbaria subdivision owing to the storm of 24th September last. Price of rice still rules high. The total number of persons receiving gratuitous relief in Brahmanbaria subdivision was 6,155 during the week. Foot and mouth disease of cattle is reported from Brahmanbaria subdivision.
27	NOAKHALI ... Feni ...	(n) (n)	{ 4‡ 4‡† 6† 3‡ 4‡† 6‡† }	{ 4‡ 6† 5*	Prospects of standing crops are good. Fodder is sufficient.
28	CHITTAGONG HILL TRACTS.	4.95	4.95	{ 4‡ 6† 4‡ }	Sowing of plough paddy is finished. Harvesting of <i>jhum</i> paddy continues. Fodder is sufficient.

\* *Aus* rice.

† Local rice.

‡ Burma rice.

(n) Not reported.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

DACCA, the 6th October 1919.







Statement showing the daily gauge readings of certain rivers at the stations named below for five days ending Thursday, the 30th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Rise.	Fall.	1917.	1918.	
Ganges	Monghyr ...	27th Sept. 1919	6 A.M. ...	13.77'	101.83'	115.60'	...	0.40'	124.70'	113.40'
	Rajmahal ...	27th "	6 "	17.85'	56.319'	74.169'	...	0.35'	82.31'	72.81'
	Goalundo ...	27th "	8 hours ...	20.30'	...	...	...	0.40'	21.30'	20.60'
Brahmaputra	Gauhati ...	27th "	8 A.M.	22.20'	148.76'	170.96'	...	0.40'	170.96'	172.56'
	Serajganj ...	27th "	12 hours ...	37.10'	...	...	Steady	...	...	...
	Dibrugarh ...	27th "	8 A.M. ...	17.20'	...	...	...	0.30'	...	...
Meghna	Bhairab Bazar	27th "	6 hours ...	...	1.61'	...	...	...	...	Not reported.
	Chandpur ...	27th "	8 "	12.08'	1.61'	13.69'	...	0.34'	...	River gauge destroyed by storm.
	Fenchuganj ...	27th "	7 A.M. ...	26.20'	...	...	0.40'	...	...	...
Dhaleswari	Sabhar ...	27th "	7 "	...	-8.62'	...	...	...	...	Not reported.
Bhagirathi	Swaruganj	27th "	6 "	21.14'	1.509'	22.649'	...	1.56'	26.98'	18.30'
Damodar	Edilpur ...	27th "	6 "	5.83'	92.58'	98.41'	0.50'	...	...	...
Lakhya	Narayanganj	27th "	...	...	-5.59'	...	...	...	...	Not reported.
Madaripur Bil Route	Takerhat ...	27th "	6 A.M. ...	13.50'	-0.599'	12.901'	...	0.30'	...	...



Statement showing the daily gauge readings of certain rivers at the stations named below for the five days ending the 30th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.			REMARKS.
						Rise.	Fall.	1917.	
Ganges	...	...	...	...	...	...	...	...	...
	Monghyr	28th Sept. 1919	6 A.M....	101.83'	115.00'	...	0.60'	124.80'	113.00'
	...	28th "	6 "	56.319'	73.769'	...	0.40'	82.71'	72.31'
Brahmaputra	...	28th "	8 hours...	...	...	...	0.30'	21.40'	20.40'
	Gauhati	28th "	8 A.M....	148.76'	171.06'	0.10'	...	170.16'	171.26'
	Serajganj	28th "	12 hours...	...	...	0.40'	...	...	...
Meghna	...	28th "	8 A.M....	...	...	...	0.30'	...	...
	Bhairab Bazar	28th "	6 hours...	1.61'	...	...	...	...	Not reported. River gauge destroyed by storm.
	Chandpur	28th "	8-30 hours	1.61'	13.28'	...	0.41'	...	...
Dhaleswari	...	28th "	7 A.M....	...	...	0.30'	...	...	...
	Sabhar	28th "	7 "	-8.62'	...	...	...	...	Not reported.
	Swarupganj	28th "	6 "	1.509'	21.099'	...	1.55'	26.98'	17.20'
Damodar	...	28th "	6 "	92.58'	98.58'	0.17'	...	...	...
Lakhya	...	28th "	...	-5.59'	...	...	...	...	Not reported.
Madaripur Bil Route	...	28th "	6 A.M....	-0.599'	12.601'	...	0.30'	...	...







Statement showing the daily gauge readings of certain rivers at the stations named below for the five days ending the 30th September 1919.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		REMARKS.
						Feet.	Feet.	1917.	1918.	
Ganges	Monghyr ...	30th Sept. 1919	6 A.M.	12.17'	101.83'	111.00'	...	124.90'	112.00'	
	Rajmahal ...	30th "	6 "	16.63'	56.319'	72.969'	...	83.21'	71.41'	
	Goalundo ...	30th "	8 hours	19.60'	...	...	...	21.70'	19.17'	
Brahmaputra	Gauhati ...	30th "	8 A.M.	23.00'	148.76'	171.76'	0.10'	169.56'	169.36'	
	Serajganj ...	30th "	12 hours	37.20'	...	...	...	...	...	
	Dibrugarh ...	30th "	8 A.M.	15.70'	...	...	...	...	...	
Meghna	Bhairab Bazar ...	30th "	6 hours	...	1.61'	...	...	...	...	Not reported. River gauge destroyed by storm.
	Chandpur ...	30th "	9 15 "	10.83'	1.61'	12.44'	...	...	...	
	Fenchuganj ...	30th "	7 A.M.	27.90'	...	...	0.80'	...	...	
Dhaleswari	Sabhar ...	30th "	7 "	...	- 8.62'	...	...	...	...	Not reported.
Bhagirathi	Swarupganj ...	30th "	6 "	16.89'	1.509'	18.399'	...	27.08'	15.28'	
Damodar	Edilpur ...	30th "	6 "	5.17'	92.58'	97.75'	...	...	...	
Lakhya	Narayanganj ...	30th "	...	...	- 5.59'	...	...	...	...	Not reported.
Madaripur Bil Route	Takerhat ...	30th "	6 A.M.	12.80'	- 0.599'	12.201'	...	...	...	



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 27th September 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum. (a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum. (a)	Remarks.
1919.					
21st September	8 A.M.	Zero of gauge is at mean sea-level.	57.50	55.21	B. M. on College step corrected (P. W. D.) 64.93.
22nd "	8 "		56.60	54.81	
23rd "	8 "		55.80	54.21	
24th "	8 "		55.10	53.81	
25th "	8 "		54.50	53.31	
26th "	8 "		54.05	52.91	
27th "	8 "		53.70	52.61	

(a) P. W. D. Datum 6.25 feet above Kidderpur old dock sill.

				Old value.	According to P. W. D. datum.
The previous year	...	Highest water-level	...	66.52 on 30th August 1918	61.71
Ditto	...	Lowest	"	41.70 on 21st April 1918	36.89
Record	...	Highest	"	68.25 on 26th August 1879	64.44
Do.	...	Ditto	"	69.08 on 9th September 1885	64.27
Do.	...	Ditto	"	68.80 on 26th August 1896	63.47
Do.	...	Ditto	"	68.21 on 26th August 1890	63.40
Do.	...	Lowest	"	37.68 on 26th April 1884	32.82
Do.	...	Ditto	"	58.13 on 14th—15th April 1888	33.32
Do.	...	Ditto	"	39.02 on 21st—22nd April 1897	34.21
Do.	...	Ditto	"	39.28 on 6th—7th May 1908	34.47

N. B.—The gauge-readings commenced from the 1st August 1887.

BOALIA,  
The 27th September 1919.M. SEN GUPTA,  
Executive Engineer, Rajshahi Divn.**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 27th September 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
21st September	7 A.M.	22.5	22.5	21.9	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chaudpur ghât. Its reduced level is 22.41.
22nd "	7 "	21.8	21.8	21.7	
23rd "	7 "	21.3	21.3	21.6	
24th "	7 "	21.0	21.0	21.4	
25th "	7 "	21.5	21.5	21.2	
26th "	7 "	20.7	20.7	20.9	
27th "	7 "	20.3	20.3	20.6	

The previous year	...	Highest water-level	...	26.2 on 1st September 1918.
Ditto	...	Lowest	...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 26th August 1906.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	25.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 18th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	...	8.18 on 16th, 17th and 29th to 31st March 1901.

N. B.—The gauge-readings commenced from 3rd October 1900.

FARIDPUR,  
The 27th September 1919.R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 20th September 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
14th Sept.	65.0	...	...	...	...	65.1	
15th "	65.2	...	...	...	...	65.3	
16th "	65.35	...	...	...	...	65.4	
17th "	65.5	...	...	...	...	65.5	
18th "	65.5	...	...	...	...	65.6	
19th "	65.6	...	...	...	...	65.6	
20th "	65.6	...	...	...	...	65.5	

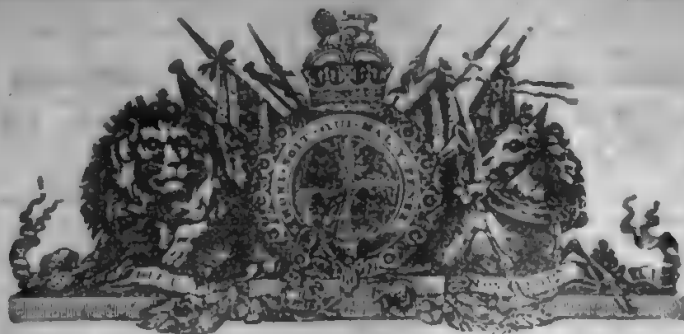
*Notable high and low water-levels of previous years.*

27th August	1908	...	...	...	...	70.5	} Taken at high tide
5th September	1909	...	...	...	...	67.86	
10th August	1910	...	...	...	...	69.86	
1st "	1911	...	...	...	...	68.46	
18th "	1912	...	...	...	...	67.16	
31st "	1915	...	...	...	...	69.7	
18th "	1916	...	...	...	...	68.1	
12th "	1917	...	...	...	...	67.1	} Taken at low tide.
31st "	1918	...	...	...	...	69.12	
28th February	1907	...	...	...	...	51.06	
18th "	1908	...	...	...	...	51.06	
12th March	1912	...	...	...	...	51.06	
6th "	1914	...	...	...	...	50.60	
22nd February	1915	...	...	...	...	50.80	
15th "	1916	...	...	...	...	50.60	
3rd March	1917	...	...	...	...	51.0	
31st February	1918	...	...	...	...	51.40	

DACCA,  
The 29th September 1919.

W. J. KERR,  
Executive Engr., Dacca Division.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 15, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 4th OCTOBER 1919.

THE rainfall during the week was insufficient. The agricultural prospects are favourable. Eighty-nine relief works were open during the week. The number of persons relieved on works was 15,047. The distribution of gratuitous relief in the shape of cash doles has been closed in all unions. The number of persons in receipt of special relief was 4,818, viz., 3,683 on paddy husking advances, 635 weavers and 500 better class poor. The grand total of persons relieved was 19,865. The decrease in the number of persons on relief works was due to the harvesting of *aus* paddy. The number of persons relieved on private works was 200. The charitable societies also relieved 700 persons by daily doles. During the week seven cases of theft of paddy were reported. Public health is on the whole good. The outbreak of malaria is reported from certain localities. Cloth is being distributed to destitutes. The relief measures are adequate. The price of common rice varies from 5½ to 5¾ seers in the rupee. Burma rice is being sold.

M. C. MCALPIN,  
Secy. to the Govt. of Bengal.

DARJEELING, the 10th October 1919.



**APPOINTMENT OF A COMMITTEE TO ENQUIRE INTO THE  
ENHANCEMENT OF LAND VALUES AND THE RISE IN  
RENTS IN CALCUTTA.**

**GOVERNMENT OF BENGAL.**

**MUNICIPAL DEPARTMENT.**

**Municipal Branch.**

**CALCUTTA, THE 30TH SEPTEMBER 1919.**

**RESOLUTION—No. 3554M.**

At the meeting of the Bengal Legislative Council held on the 3rd September 1919, the Hon'ble Mr. W. H. Phelps moved that the Governor in Council be recommended to appoint a Commission to enquire "into the causes of the excessive land values and high rents in Calcutta, and, if possible, to suggest remedies". The resolution was accepted by Government and duly carried. The Governor in Council has accordingly directed that a Committee representative of the various interests involved, should be appointed to enquire into the remarkable enhancement in land values and house rents, which has recently occurred in Calcutta.

He desires that the causes of this enhancement may be investigated and its extent and degree defined; that the charge of "profiteering" made against landlords should be examined, and that, if in the opinion of the Committee it is desirable and practicable to control or limit the rise in rents, definite proposals in this behalf may be submitted for the consideration of Government at an early date.

The Governor in Council is pleased to appoint the following gentlemen to form the Committee, namely:—

1. The Hon'ble Mr. W. E. CRUM, O.B.E., *Chairman.*
2. The Hon'ble Mr. F. C. FRENCH, C.S.I., I.C.S.
3. The Hon'ble RAJA RESHI KESH LAW, C.I.E.
4. The Hon'ble Mr. ABDUR RAHIM.
5. REV. A. GILLE, S.J.
6. The Hon'ble Mr. W. H. PHELPS.
7. A. DEBOIS SHROBREE, Esq.
8. RAI P. N. MUKHARJI BAHADUR.
9. BABU RAMDEO CHOKANI.
10. J. H. RUNDLETT, Esq.
11. A. D. PICKFORD, Esq.
12. R. C. BONNERJEE, Esq., *Bar.-at-Law.*
13. The Hon'ble Mr. H. P. DUVAL, I.C.S.
14. J. A. WOODHEAD, Esq., I.C.S., *Secretary.*

By order of the Governor in Council,

S. W. GOODE,  
*Offg. Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE ADMINISTRATION REPORT OF THE  
COMMISSIONERS FOR THE PORT OF CHITTAGONG FOR  
THE YEAR 1918-19.**

**GOVERNMENT OF BENGAL.**

**MARINE DEPARTMENT.**

**CALCUTTA, THE 14TH OCTOBER 1919.**

**RESOLUTION—No. 8162 Marine.**

**READ—**

The Administration Report of the Commissioners for the Port of Chittagong for the year 1918-19.

**Income.**—The ordinary receipts of the Port Fund during the year under review amounted to Rs. 2,28,310 (exclusive of the Government grant of Rs. 1,50,000 for the improvement of the Port) as against Rs. 1,75,561 of the preceding year. A further grant of Rs. 1,00,000 was made by this Government from Provincial revenues for the revetment work at Patenga, and a sum of Rs. 20,208 was received as an annual assignment from the Burma Coast Light Dues Fund. The total receipts of the Port Fund amounted to Rs. 4,98,518 as against Rs. 3,45,769. The increase was mainly due to the payment of arrears of contribution from the Pilotage Fund for the previous year, the lease of the residences of the Port Officer and second Harbour Master, Chittagong, to private persons, the imposition of a surcharge of 100 per cent. from the 1st March 1918 on mooring and unmooring fees, the raising of the river dues from 4 annas to Re. 1 per ton from 1st December 1918, and an improvement in the jute export trade.

**2. Expenditure.**—The ordinary expenditure of the Port Fund for the year amounted to Rs. 4,60,263, as against the actuals of Rs. 3,40,945 of the previous year. The increase in expenditure was mainly due to payment of Rs. 99,326 on account of acquisition of land for revetment work.

The net working result is a credit balance of Rs. 38,255. But for the Government subsidy of Rs. 2,50,000 the year would have closed with a deficit of Rs. 2,11,745.

**Assets and Liabilities.**—The value of the Port Commissioners' properties as estimated on the 31st March 1919 stands at Rs. 36,26,522 and the liabilities at Rs. 70,454 (exclusive of Rs. 4,96,914, being the outstanding balance of loans from Government for revetment work).

**Dredging Report.**—The dredger "Karnafuli I" underwent frequent repairs during the year under review. She worked at the Inner and Outer bars and the double moorings for 112 days only, dredging 45,00,000 cubic feet.

**Outer Bar.**—An average depth of 8 feet 8 inches was maintained throughout the year. The dredger was employed for 37½ days on this bar.

**Inner Bar.**—An average depth of 8 feet 10 inches was maintained during the year. The dredger was at work for 83½ days on this bar.

**River Survey.**—The annual surveys were carried out for the navigable portion of the Karnafuli from two miles above the Sadarghat jetty to the mouth of the river.

A marine survey of the river from the mouth of the Karnafuli was practically completed under the direction of the Port Officer during the fair season, and plotted to the scale of 400 feet to an inch.

**Revetment.**—The revetment in the river bank stood well during the year, a slight reinforcement of additional stone being necessary on the slopes.



**Light-houses.**—The Kutubdia and Norman's Point Light-houses, towers and lanterns were in good order.

The Kutubdia Light-house revetment work was inspected during the year and found to be in a satisfactory state.

**Light-vessels.**—The light-vessel "Sarsuti" underwent her annual repairs in the port of Chittagong. The total cost of maintaining the vessel amounted to Rs. 15,237.

**Shipping.**—The total number of ocean-going vessels, inland steamers, and sailing vessels entering the port was 709 as against 600 during the previous year. The Port Officer submitted to Government his report of enquiry into two cases of shipping casualties upon which Government decided that no further enquiry was necessary.

**Detention of vessels.**—Two inward-bound vessels were detained owing to insufficient depth of water over the bars. The period of detention was five days in one case and three days in the other case.

**Trade.**—The total value of foreign and coasting sea-borne trade has considerably increased and amounted to Rs. 771.76 lakhs as against Rs. 661.86 lakhs during the preceding year.

**Sanitation.**—The general health of the port was good.

**Development and future administration of the Port.**—During the year under review Sir George Buchanan presented to the Government of India, Railway Department (Railway Board), his valuable report on the development of the port: the report dealt with the question both from an administrative and technical point of view. The Government of India forwarded to this Government a copy of the report and particularly asked for the opinion of this Government on two points,—one administrative and one financial. The Chittagong Chamber of Commerce and the Port Commissioners were consulted and the opinion of this Government was communicated to the Railway Board. This Government agreed that the Assam-Bengal Railway should be more strongly represented on the Port Trust Board, Chittagong, in view of the preponderating interest of that railway in the development of the port. The estimates framed by Sir George Buchanan for important engineering works, at an estimated cost of Rs. 44 lakhs in addition to the provision of one or two dredgers, were accepted. An examination of the financial condition of the Port Trust proved conclusively that without material financial assistance the engineering works proposed in Sir George Buchanan's report could not be constructed. As the revetment at Gupta Point was of immediate urgency for the prevention of further deterioration at the Inner bar, the port was helped during the year under review from Provincial revenues by the grant of Rs. 1 lakh in addition to the annual grant of Rs. 1½ lakhs. The Government of India were also asked for a grant of not less than Rs. 4 lakhs a year, for the years 1919-20 and 1920-21, and eventually the Imperial Government agreed to provide Rs. 4 lakhs during 1919-20 for urgent revetment work. Subsequently to the close of the year under review, the Government of India suggested to this Government the advisability of placing under the direct control of the Assam-Bengal Railway the port of Chittagong as being in fact the terminal port of that railway. This Government after some negotiation accepted the proposal of the Government of India; and the necessary legislation to give effect to this decision is now under consideration in the Government of India.

**General.**—The duties of the Port Officer were carried out by the Collector of Customs conjointly with the senior Harbour Master, as no officer of the R. I. M. was available for the post.

Mr. K. C. De, Commissioner of the Chittagong Division, was Chairman of the Commissioners during the year except from the 9th July to the 20th October, when Mr. Clayton acted in his place.

By order of the Governor in Council,

F. A. A. COWLEY,

Secy. to the Govt. of Bengal.



**DEPARTMENT OF AGRICULTURE, BENGAL.**

**Second Forecast of the Cotton Crops of Bengal, 1919-20.**

*Note.—On an average of the five years ending 1917-18, the area under the Cotton Crops in Bengal has represented some 0·8 per cent. of the total area under cotton in India.)*

There are two crops—early and late. The “early” crop is chiefly grown in the Chittagong Hill Tracts and in the State of Hill Tippera, and to a small extent in other districts. The “late” crop is grown in Bankura and Midnapore.

**Character of the season.**—At sowing time, the weather was generally unfavourable owing to insufficient rain. Subsequent rainfall, which was generally moderate up till the end of June, greatly improved the prospects. In the following two months, heavy rain in the Chittagong Hill Tracts affected the crop. The present prospects are reported to be fair, on the whole.

**Area sown.**—The area sown with early cotton is reported to be 69,280 acres this year, against 71,367 acres reported in the corresponding forecast of last year.

Of the late crop, 758 acres are reported to have been sown up to date, against 700 acres in the corresponding forecast of last year.

ROBERT S. FINLOW,

*Offg. Director of Agriculture, Bengal.*

DACCA,

*The 6th October 1919.*



**DEPARTMENT OF AGRICULTURE, BENGAL.**

**Second Forecast of the Sugarcane Crop of Bengal, 1919-20.**

*(Note.—On an average of the five years ending 1917-18, the area under Sugarcane in Bengal has represented some 3·3 per cent. of the total area under Sugarcane in British India.)*

**Character of the season.**—Insufficient rainfall at the outset was somewhat unfavourable to the planting of the crop and retarded germination in places. Good rain, since then, generally greatly benefited the growth of the plants. In parts of Nadia, Jessore, Burdwan, Pabna, Faridpur and Noakhali, however, the crop suffered somewhat through excessive rainfall in July and August. The present prospects are generally reported to be promising.

**Acreage.**—The area planted with sugarcane for the province this year is reported to be 218,600 acres against 219,300 and 218,900 acres reported respectively in the corresponding and final forecasts of last year.

**Outturn.**—According to the estimates of the district officers the provincial outturn works out to 88 per cent. of the normal as against 81 and 77 per cent. reported respectively in the second and final forecasts of last year.

ROBERT S. FINLOW,  
*Offg. Director of Agriculture, Bengal.*

Dacca :  
*The 9th October 1919.*



## APPENDIX.

## Second Forecast of the Sugarcane Crop of Bengal, 1919-20.

District.	Estimated normal area under sugarcane.	Estimated area under sugarcane.		Taking 100 to represent the normal, what would be the average output per acre cropped.		Date by which the planting of sets generally commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year.	This year.	Last year.	This year.		
24-Parganas ...	Acres. 8,000*	Acres. 4,100	Acres. 4,800	87	100	April. Normal ...	The increase in area is due to the high price of sugar. The weather has been favourable.
Nadia ...	7,900	5,800	6,100	67	67	January to February. Normal.	The increase in area is due to high price of sugar. The weather was favourable at planting time, but subsequent heavy rains have damaged the crop to a certain extent in the Ranaghat and Chudanga subdivisions. The effects of the weather have not been favourable in all the subdivisions.
Murshidabad ...	3,600	3,100	2,800	58	75	December to April ...	The decrease in area was due to want of rain during the planting time. The weather was not favourable at the beginning owing to want of rain which has affected the growth of the crop a little, but the conditions have improved later on.
Jessore ...	3,300	2,600	3,100	5	75	February and March. Normal.	The increase in area was due to high price of sugar. The weather was favourable at planting time, but subsequent drought retarded their growth. In some places the heavy rains of July and August damaged the plants to some extent.
Khulna ...	1,300	1,100	1,100	77	67	February. Normal ...	The weather was reasonable; its effects have been favourable to the growth of the crops.
Hurdwan ...	36,600	19,000	18,100	75	83	April to May. Normal.	The weather was not favourable at the beginning but subsequently it has become favourable except in places where the growth of the crop has been affected by heavy rainfall.
Birbhum ...	9,000	11,000	11,000	75	100	May. Normal ...	The weather has been favourable.
Ranikura ...	15,000	11,500	10,500	75	117	Middle of May. Late	The planting was delayed owing to want of rainfall at the beginning. The weather has since been good.
Midnapore ...	6,600*	3,000	4,300	40	100	March and April. Normal.	The increase in area was due to favourable conditions at sowing time and to high price of sugar. The weather has been favourable.
Hooghly ...	7,300	5,000	4,900	87	94	March. Normal ...	The weather was not very favourable at planting time, but has since been favourable.
Howrah ...	8,500	5,300	5,300	71	92	January. Normal ...	The weather has been favourable and its effects have been good on the growth of the crop.
Rajshahi ...	16,000	13,500	13,300	70	75	End of January. Normal.	
Dinajpur ...	35,000	30,500	31,100	78	80	January to March. Normal.	The increase in area is due to high price of sugar. The weather has been fair and its effects on the growth of the crop have been good.
Jalpaiguri ...	5,000*	4,000	3,700	80	85	December. Normal ...	The decrease in area was due to want of rain at planting time. The weather has not been favourable.
Darjeeling ...	300*	300*	300†	46	67	By the end of February	The weather and its effects on the growth of the crop have been fair.
Naugpur ...	30,500	11,000	13,500	10	100	Latter part of February. Normal.	The weather was not favourable at first but has been favourable later on. The effects of the weather on the growth of the crop have been good on the whole.
Bohara ...	5,000*	3,700	4,300	67	88	March and April. Normal.	At the beginning the weather was not favourable, but subsequently it has been favourable to the growth of the crop.
Pabna ...	10,000	9,700	4,700	65	55	Middle of April. Normal.	The decrease in area is due to want of rain at planting time. The weather was not favourable for cultivation and subsequent want of timely rainfall retarded the growth of the crop. The present condition of the crop is also not good owing to excessive rain.
Malda ...	300	300†	300†	100	100	Ditto ...	The weather was dry at planting time, but it has been favourable. A normal output is expected.
Dacca ...	21,100	23,900	23,700	74	81	February to April. Late.	Reasonable rain at sowing time and subsequently frequent showers have done much good to the crop.
Mymensingh ...	11,100	10,300	10,500	80	70	Jamalpur. Late. Elsewhere normal.	The weather has not been favourable. The growth of the crop has been stunted to a considerable extent for want of timely rain.
Faridpur ...	7,100	7,400	7,400	87	87	End of February. Normal.	The weather was favourable at planting time, but subsequently the growth has been affected by heavy rainfall.

\* Revised.

† Conventional area revised.



District.	Estimated normal area under sugarcane.	Estimated area under sugarcane.		Taking 100 to represent the normal, what would be the average outturn per acre cropped.		Date by which the planting of sets generally commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year.	This year.	Last year.	This year.		
	Acrea.	Acrea.	Acrea.				
Bahar/ ...	11,000	20,000	22,000	80	108	January and February. Normal.	The weather was favourable at sowing time, but became a little unfavourable afterwards. The flood in the first part of August has done slight damage to the crop. The present condition, however, is good.
Chittagong ...	8,400	8,400	8,000	35	100	Middle of March. Normal.	The rainfall at planting time was deficient, but subsequent conditions have on the whole been favourable to the growth of the crop.
Tippah ...	8,000	8,100	8,000	70	67	March. Normal	The weather was dry at planting time, but it is good now. The effects of the weather on the growth of the crop have been fair.
Nonkhal ...	800	800(a)	800(a)	80	68	First week of April. Normal.	The weather has been favourable. Owing to heavy rainfall in June, July and August the growth of the plant in the Badar subdivision has been stunted to a considerable extent.
Chittagong Hill Tracts.	1,000	1,000	1,000	68	80	Middle of April to middle of May.	The weather has not been favourable. Insufficient rainfall is retarding the growth of the crop.
Total of Bengal	247,500*	216,000*	218,800	72	88		

(a) Conventional area. | \* Revised.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 9th October 1919.

**Summary.**—Light to moderate rain generally fell during the week. Transplanting of winter rice is practically over. More rain is needed for the growth of the crop, especially in the western districts. Steeping and washing of jute are still going on. Preparation of lands for the next spring crops and their sowings continue. The condition and prospects of the standing crops are on the whole favourable. The average price of common rice for the province has fallen by about 0.45 per cent. as compared with that of the previous week. The conditions in Bankura are published separately:—

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	0.36	{ 5 6½ }	{ 5½ 6½ }	Prospects of <i>aman</i> paddy are good. Lands are being ploughed for <i>rabi</i> crops at Barasat. Harvesting and steeping of jute continue.
	Diamond Harbour.	1.53	{ 4½ 5½ }	{ (n) (n) }	
	Baranekpore	0.15	{ 4½ 6 }	{ (n) (n) }	
	Barasat ...	1.28	{ 4½ 5 }	{ 4½ 5 }	
	Basirhat ...	0.88	{ 5 5½ }	{ 5 5½ }	
2	NADIA ...	0.29	{ 4½ 6½ }	{ 4½ 6½ }	Prospects of standing crops, including jute, are good. Lands are being prepared for <i>rabi</i> crops. Steeping and washing of jute still continue.
	Kushtia ...	0.49	{ 4½ 6½ }	{ 4½ 5½ }	
	Meherpur ...	0.52	{ 4½ 6 }	{ 4½ 6 }	
	Chuadanga ...	1.24	{ 4½ 6 }	{ 4½ 6 }	
	Ranaghat ...	0.20	{ 4½ 6 }	{ 4½ 6 }	
3	MURSHIDABAD	1.64	5	5	Weather hot and cloudy; rain is wanted for standing crop. Fodder is sufficient. No large import or export. Burma rice is not available.
	Lalbagh ...	(n)	5	5½ }	
	Jangipur ...	0.41	5½	(n)	
	Kandi ...	(n)	(n)	5½	
4	JESSORE ...	1.20	{ 5 5½ }	{ 5½ 6 }	Standing crops are doing well. Washing of jute continues. Fodder and water are sufficient.
	Jhenidah ...	1.69	5½	5½	
	Magnra ...	0.45	4½	4½	
	Narail ...	0.90	4 {	4½ 5½ }	
	Bangaon ...	0.33	5½	6	
5	KHULNA ...	0.41	{ 4½ 6 }	{ 4½ 6 }	Fodder is reported to be insufficient at Syamnagore police-station. Water is sufficient. Crops have been damaged by cyclone to some extent.
	Satkhira ...	2.22	4	4	
	Bagerhat ...	2.60	{ 4½ 5½ }	{ 4½ 5½ }	
6	BURDWAN ...	0.33	{ 5 6 to 6½ }	{ 5 6 to 6½ }	Weather hot. Rain is badly wanted for <i>aman</i> paddy. Harvesting of <i>aus</i> paddy is almost over. Large export of rice continues from Kalna.
	Asansol ...	0.16	5	5	
	Katwa ...	Nil	5½	5½	
	Kalna ...	Nil	5	4½	

• Burma rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN BURNS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
7	BIRBHUM ...	Inches Nil	5½	5	Weather hot and cloudy. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	1.25	5½	5	
8	BANKURA ...	0.92	{ 5½ 6°	{ 6 6½°	More rain is wanted for paddy on high lands. Export of rice and paddy is going on. Reaping of <i>aus</i> paddy continues.
	Vishnupur...	3.15	5½	5½	
9	MIDNAPORE ...	0.54	{ 5 6½ 6½°	{ 5½ 6½°	Prospects of winter rice are fair.
	Ghatal ...	1.73	{ 5½ 5½†	5½	
	Tamluk ...	1.93	{ 4½ 5½† 5½½°	{ 4½ 6½°	
	Contai ...	0.70	{ 5½ 5½†	6	
10	HOOGHLY ...	Nil	{ 4½ 5½ to 6½°	{ 4½ 5½ to 6½°	
	Serampore ...	0.15	(n)	5	Effects of weather on the growth of the crops are unfavourable. Fodder is sufficient. Rain is needed.
	Arambagh ...	0.79	5½	5½	
11	HOWRAH ...	0.36	{ 5 6½°	{ 5 6½°	
	Ulubaria ...	2.10	{ 5 6°	{ 5 6°	Weather cloudy with slight showers at intervals. Condition of sugarcane is good. Harvesting of jute continues. Prospects of standing crops are favourable. Fodder is sufficient.
12	RAJSHAHI (RAMPUR-BOALIA).	2.71	{ 4½ 5½°	4½	
	Naogaon ...	3.25	{ 3½ 5½°	3½	Prospects of standing crops are favourable. Harvesting of jute is nearly finished. Fodder is sufficient.
	Nator ...	Nil	{ 4½ 5½°	4½	
13	DINAJPUR ...	3.74	{ 4½ 5½ 6°	{ 4½ 4½	Weather seasonable. Prospects of standing crops are good. Harvesting of jute and other <i>bhadol</i> crops is going on. Rice market is rising. Export of paddy and rice is going on. Fodder is available.
	Thakurgaon	1.70	4½	4½	
	Balurghat ...	3.66	3½	(n)	
14	JALPAIGURI...	0.39	{ 4 6°	{ 4 5°	Weather seasonable. <i>Himanti</i> paddy is doing well. Prospects are favourable. Fodder and water are sufficient.
	Alipur ...	11.28	{ 3½ 5°	{ 3½ 5°	
15	DARJEELING	0.79	{ 4½ 5½°	{ 4½ 5½°	Maize, potatoes and cardamom are being harvested. Marua is progressing. Stocks of food-grains are inadequate in places. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	1.13	{ 4½ 5½°	(n)	
	Siliguri ...	4.75	{ 4½ 6°	{ 3½ 6°	
	Kalimpong...	0.09	3½	3½	

\* Burma rice.

† Coarse rice

‡ *Aus* rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
16	RANGPUR ...	8.57	4	4	Weather seasonable. Recent rainfall is beneficial to winter rice. Steeping of jute is almost finished. Transplantation of winter paddy is going on. Lands are being prepared for spring crops. Effects of rainfall on the growth of the crops are good. Some consignments of Burma rice have been received. Stocks of food-grains, fodder and water are sufficient.
	Nilphamari	1.92	4½	4½	
	Kurigram ...	8.40	4	3½	
	Gaibandha ...	1.48	4½	4½	
17	BOGRA ...	0.23	{ 4½ 5½ }	{ 4½ 5½ }	Harvesting of jute continues. Prospects are fair.
18	PABNA ...	0.36	{ 5½ 6 }	{ 4½ 6 }	
	Sirai ganj ...	(n)	(n)	{ 3½ 5½ }	No damage has been done to the standing crops by the recent cyclone. Condition of cattle and fodder is fair.
19	MALDA ...	1.92	{ 5 6 }	{ 4½ 5½ }	
20	COOCH BEHAR	6.22	7½	7½	Weather rainy and cloudy. Transplantation of <i>haimanti</i> paddy seedlings is finished and washing of jute continues. Fodder is sufficient. Preparation of lands for tobacco has commenced at places. Burma rice is not available.
21	DACCA ...	0.17	{ 3½ 5½ }	{ 3½ 5½ }	Weather seasonable: occasional rains have benefitted <i>aman</i> paddy which is doing well. Prospects of standing crops are good.
	Manikganj ...	0.24	{ 3½ to 3½ 5 }	{ 3½ 5½ }	
	Narayanganj	(n)	{ 3½ 5½ }	{ 3½ 5½ }	
	Munshiganj (a)	(n)	(n)	3½	
22	MYMENSINGH	4.01	{ 3½ 5½ }	{ 3½ 5½ }	Weather cloudy with occasional wind and showers. Harvesting and steeping of jute are going on. Transplantation of winter rice is almost finished. Damage by storm is reported from Kishorganj. Fodder is sufficient.
	Jamalpur ...	0.75	{ 3½ 5½ }	{ 3½ 5½ }	
	Tangail ...	0.86	{ 3½ 5½ }	{ 3½ 5½ }	
	Netrakona ...	7.24	{ 3½ 4½ }	{ 3½ 4½ }	
	Kishorganj...	10.65	{ 3½ 5 }	{ 3½ 4½ }	

(n) Not reported.

• Burma rice.

(a) Manshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
23	FARIDPUR ... Goalundo ... Madaripur ... Gopalganj(a)	Inches 0.97 2.17 0.91 (n)	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \end{array} \right.$ 4 (n)	$\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$ 3 $\frac{1}{2}$ (n)	Effects of weather on the standing crops are good. <i>Digha</i> paddy is damaged by the cyclone. Fodder is available.
24	BAKARGANJ (BARISAL). Pirojpur ... Patuakhali ... Dakshin Shabazpur (Bhola).	0.66 1.11 0.57 6.20	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \\ 6 \end{array} \right.$ $\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \\ 6 \end{array} \right.$ $\left\{ \begin{array}{l} 4 \\ 6 \end{array} \right.$ $\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \end{array} \right.$	Fodder is sufficient.
25	CHITTAGONG Cox's Bazar	0.49 0.34	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	Prospects of standing crops are good. Transplanting of <i>aman</i> paddy is completed. <i>Panga</i> salt is selling at 9 seers per rupee both at Sadar and Cox's Bazar. Fodder is sufficient.
26	TIPPERA (COMILLA). Brahmanbaria. Chandpur ...	1.34 0.23 Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 4\frac{3}{8} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 4\frac{1}{2} \\ 4\frac{1}{2} \end{array} \right.$	Transplanting of <i>aman</i> and harvesting of <i>aus</i> paddy are finished. Prospects of <i>aman</i> paddy are hopeful. Demand for controlled rice is great. Price of rice is stationary. Foot and mouth disease of cattle is reported from Brahmanbaria subdivision.
27	NOAKHALI ... Feni ...	2.08 2.85	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$ $\left\{ \begin{array}{l} 3\frac{7}{8} \\ 4\frac{7}{8} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 4\frac{1}{2} \\ 6 \end{array} \right.$ $\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{7}{8} \\ 6\frac{1}{2} \end{array} \right.$	Prospects of standing crops are good. Fodder is sufficient.
28	CHITTAGONG HILL TRACTS.	1.06	$\left\{ \begin{array}{l} 5 \\ 6 \\ 7\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 5 \\ 6\frac{1}{2} \end{array} \right.$	Condition of plough paddy is fair. Harvesting of <i>jhum</i> paddy continues. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here  
(n) Not reported.

† Burma rice.

‡ Local rice.

§ Awaj rice.

J. C. ROY,

for Director of Agriculture, Bengal.

DACCA, the 13th October 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 11th October 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<b>Rice—</b>				
Balam, coarse	.....	.....	0 4 3	0 4 6
" medium	.....	.....	0 5 0	0 5 6
Patnai, coarse	8 10 0	9 4 0	0 3 6	0 3 9
" medium	9 6 0	10 8 0	0 5 0	0 5 6
Nagra, coarse	8 12 0	9 6 0	0 3 9	0 4 0
" medium	9 8 0	10 12 0	0 5 0	0 5 6
Dudhkalua	9 0 0	9 4 0	0 4 0	.....
Rangoon Boiled	.....	.....	0 3 3	0 3 6
Kajla	7 13 0	8 4 0	0 3 3	.....
Wheat, Dudhia	7 2 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	6 13 0	.....	.....	.....
Gram, Patnai (whole)	7 6 0	8 0 0	.....	.....
" dal	9 0 0	9 8 0	0 3 6	0 4 0
Mung " (Hari)	9 0 0	9 8 0	0 8 0	.....
" " (Krishna)	10 8 0	11 0 0	0 6 0	.....
Arhar " "	8 0 0	11 12 0	0 3 0	0 5 0
Masur " (split)	7 4 0	8 4 0	0 3 0	0 4 0
" " (Khanri)	10 0 0	11 0 0	0 4 6	0 5 0
Kalai "	7 12 0	8 8 0	0 3 3	0 5 0
Salt	3 3 6	3 7 0	0 1 6	0 1 9
Sugar (Brown Java)	19 12 0	.....	0 8 0	0 10 0
Gur, Bheli	8 8 0	9 8 0	0 5 0	.....
" Bhursut	11 0 0	11 4 0	0 5 0	0 6 0
Milk	13 0 0	15 0 0	0 3 0	0 5 0
Mustard oil	36 0 0	37 10 0	1 0 0	1 2 0
Flour (country)	9 4 0	9 15 0	0 4 6	0 5 0
Atta, No. 3	7 10 0	.....	0 3 6	0 5 0
" " 2½	7 14 0			
" " B	10 3 0			
Suji	10 0 0	10 8 0	0 4 6	0 5 6
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	.....	.....	.....	.....
" (Lalli, Etwa, Sagar, etc.)	78 0 0	79 0 0	2 2 0	.....
Maize	5 12 0	6 0 0	.....	.....
Potato	7 0 0	8 0 0	0 3 0	0 3 6
Patal	.....	.....	0 4 0	0 5 0
Brinjal	6 0 0	6 4 0	0 2 6	0 3 0
Onion	4 6 0	4 8 0	0 2 0	0 2 6
Fish, Rahu	25 0 0	30 0 0	0 14 0	1 0 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of price of the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jugu Babu's Bazar, Taltolla Bazar

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 13th October 1919.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur.  
Boalia for the week ending the 4th October 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea- level according to P. W. D. datum.(a)	Height of surface above mean sea- level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
28th September ...	8 A.M.	Zero of gauge is at mean sea level.	53.30	52.21	B. M. on College step 64.93.
29th " ...	8 "		53.00	51.81	
30th " ...	8 "		52.50	51.41	
1st October ...	8 "		52.00	51.11	
2nd " ...	8 "		51.70	50.71	
3rd " ...	8 "		51.20	50.11	
4th " ...	8 "		51.00	49.51	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year ...	Highest water-level ...	66.52 on 30th August 1918	...	61.71
Ditto ...	Lowest " ...	41.70 on 21st April 1918	...	36.85
Record ...	Highest " ...	69.25 on 26th August 1879	...	64.44
Do. ...	Ditto " ...	69.08 on 9th September 1885	...	64.27
Do. ...	Ditto " ...	68.30 on 26th August 1906	...	63.47
Do. ...	Ditto " ...	68.21 on 26th August 1890	...	63.40
Do. ...	Lowest " ...	37.63 on 25th April 1884	...	32.32
Do. ...	Ditto " ...	38.18 on 14th—15th April 1883	...	33.32
Do. ...	Ditto " ...	39.02 on 21st—22nd April 1897	...	34.21
Do. ...	Ditto " ...	39.28 on 6th—7th May 1908	...	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,  
The 4th October 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and  
Brahmaputra for the week ending 4th October 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea- level on same date last year.	Remarks.
1919.					
28th September	7 A.M.	20.0	20.0	20.4	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passen- ger ghât and Chandpur ghât. Its reduced level is 22.41.
29th " ...	7 "	19.7	19.7	20.1	
30th " ...	7 "	19.6	19.6	19.7	
1st October ...	7 "	19.4	19.4	19.4	
2nd " ...	7 "	19.1	19.1	19.0	
3rd " ...	7 "	19.0	19.0	18.6	
4th " ...	7 "	18.8	18.8	18.2	

The previous year ...	Highest water-level ...	25.2 on 1st September 1918.
Ditto ...	Lowest " ...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges) ...	Highest " ...	25.75 on 28th August 1906.
Record (average flood in Brahmaputra and Ganges) ...	Ditto " ...	25.74 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges) ...	Ditto " ...	25.56 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only) ...	Ditto " ...	25.66 on 31st July 1900
Do. ...	Lowest " ...	1.0 on 8th February 1914.
Do. ...	Ditto " ...	2.42 on 13th March 1908.
Do. ...	Ditto " ...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do. ...	Ditto " ...	8.16 on 9th to 11th March 1885.
Do. ...	Ditto " ...	8.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR, R. K. GHOSE,  
The 6th October 1919. for Subdivisional Officer, P. W. D., Faridpur.



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 27th September 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 4 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
21st Sept.	65.4	...	...	...	...	65.3	
22nd "	65.2	...	...	...	...	65.2	
23rd "	65.1	...	...	...	...	65.05	
24th "	65.0	...	...	...	...	65.0	
25th "	...	...	...	...	...	...	Readings not recorded as the river gauge was swept away by the cyclone of 24th September 1919.
26th "	...	...	...	...	...	...	
27th "	64.88	...	...	...	...	64.65	

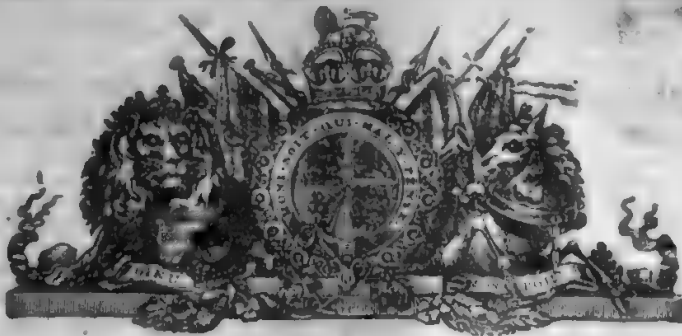
*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
6th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	Taken at low tide.
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	61.06	
18th "	1908	...	...	...	61.06	
12th March	1912	...	...	...	61.06	
6th "	1914	...	...	...	60.60	
22nd February	1915	...	...	...	60.30	
16th "	1916	...	...	...	60.60	
3rd March	1917	...	...	...	61.0	
21st February	1918	...	...	...	61.40	

DACCA,  
The 11th October 1919.

W. J. KERR.  
Executive Engr., Dacca Division.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 22, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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### REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 11th OCTOBER 1919.

THE rainfall during the week was insufficient, but agricultural prospects are favourable. Seventy-three relief works were open during the week. The number of persons relieved on works was 13,265. The number of persons in receipt of special relief was 4,215, viz., 3,683 on paddy-husking advances, 555 weavers and 7 better class poor. Ordinary gratuitous relief had been closed in the previous week. The grand total of persons relieved was 17,510. The decrease in the number of persons on relief works was due to the closure of works in two thanas. The number of persons relieved on private works was 500. The charitable societies also relieved 700 persons by daily doles. During the week seven cases of theft of paddy were reported. Public health is generally good. The outbreak of malaria is reported from certain localities. Cloth is being distributed to the destitutes. The relief measures are adequate. The price of common rice varies from 5½ to 5¾ seers in the rupee. Burma rice is being sold.

M. C. MCALPIN,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 16th October 1919.



## REPORT ON THE ADMINISTRATION OF THE EXCISE DEPARTMENT IN BENGAL DURING THE YEAR 1918-19.

### NOTIFICATION.

*No. 344T.-S.R.—The 9th October 1919.*—The following extracts from the Report of the Commissioner of Excise and Salt on the administration of the Excise Department in Bengal during the year 1918-19 are published for general information.

C. F. PAYNE,

*Secy. to the Govt. of Bengal.*

No. 4500E., dated Calcutta, the 24th September 1919.

From—S. C. MUKERJEE, Esq., I.C.S., Commissioner of Excise and Salt, Bengal,

To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to submit the following report on the administration of the Excise Department in the Presidency of Bengal for the year 1918-19.

Mr. A. N. Moberly, I.C.S., was in charge of the department till the 7th November 1918, when I relieved him.

#### 4. Administrative changes and reforms.—

(4) Under Government Notification No. 1968 S.R., dated the 22nd July 1918, the opening hours of premises for the retail vend of foreign liquor for consumption therein has been fixed at 11 A.M.

(5) Under Government Notification No. 2172 S.R., dated the 12th August 1918, the limit of retail sale of foreign liquor (except beer and denatured spirit) has been fixed at 23 reputed quart bottles or 47 reputed pint bottles, and that of beer at 4 Imperial gallons or 24 reputed quart bottles or 48 reputed pint bottles.

(7) Under Government Notifications Nos. 2447 S.R., 2449 S.R., and 2450 S.R., dated the 30th August 1918, the system of levying a tax on each *tari*-producing tree has been introduced in the Sadar and Serampur subdivisions of the Hooghly district and the whole of the Howrah district (with the exception of areas included in the Calcutta district).

(8) Under Government Notifications Nos. 133 T.-S.R., dated the 23rd September 1918, and 285 S.R., dated the 29th January 1919, the duty on country spirit for different strengths was enhanced in the districts of Hooghly, Howrah, 24-Parganas and Calcutta.

(10) Under Government Notification No. 3585 S.R., dated the 21st December 1918, female Excise preventive officers were experimentally appointed under the Excise Intelligence Bureau to deal with smuggling by rail.

(11) Under Government Notification No. 70 S.R., dated the 7th January 1919, the rate of duty on country spirit was increased in the district of Jalpaiguri.

(15) Under Government Notification No. 926 S. R., dated the 26th March 1919, the retail prices of country spirit were increased throughout the Presidency.

5. **Temperance teaching in Schools.**—The following has been communicated to me in compliance with Government Memorandum No. 1850 R.S., dated the 24th September 1915, for incorporation in this report:—

Lessons on temperance are incorporated in books on hygiene recommended for use in middle and upper primary stages of English and vernacular schools. The revised curriculum for primary schools provides for the teaching of temperance in Classes IV and V, and is now under the consideration of Government.



**6. Temperance movements.**—Outside Calcutta there was no evidence of any temperance movement during the year, except that the movement at Teknaaf, in the district of Chittagong, which was noticed about three years ago, continued and the Collector reports that in consequence opium was consumed with moderation in the locality. The organisation in Calcutta continued to show much activity and is well conducted. Apart from its work in Calcutta itself, it organised lectures at Dacca and Mymensingh in connection with the Social Service League. It cannot be too strongly emphasised that the Excise Department is ready to co-operate with any reasonable temperance movement. There are some questions, such as the separation of premises for "off" and "on" sales of country liquor, further curtailment of the hours of sale, closing of shops on days of festivals in which people drink to excess, removal of shops from the main roads, restriction in the supply of country liquor, and the provision of counter-attractions to grog shops, in which opinions differ. When these questions have been fully and carefully discussed, the Department will be ready to consider any reasonable and practicable proposals.

**7. Excise Advisory Committees.**—Excise Advisory Committees were convened for all the municipalities outside the Calcutta district and for all rural areas. All their recommendations were carefully considered and effect was given to them in almost all cases. One foreign liquor shop, seven country spirit shops, three *tari* shops, two *pachwai* shops, nine *ganja* shops, one *charas* shop and four opium shops were abolished, and the sites of twenty-two country spirit shops, nine *tari* shops, fifteen *pachwai* shops, ten *ganja* shops, one *bhang* shop and six opium shops were changed in accordance with their advice. The sites would have been changed in other cases also, if suitable places could have been procured to which the shops could be removed. In some cases the objection was met by the erection of screens or walls. On the whole these Advisory Committees served a very useful purpose and they are gradually taking more and more interest in their work.

**8. Licensing Boards.**—The Licensing Boards held 23 meetings as compared with 17 in 1917-18 and 12 in 1916-17 :—

The action taken is summarized in the following statement :—

Class of license.	Action taken.	Calcutta.	Cossipore-Chitpore.	Manick-tola.	Garden Reach.	Howrah.	Bally.	Total.
Country spirit ...	Abolished ...	12	...	...	...	2	1	15
Ditto ...	Site changed ...	4	...	...	...	...	...	4
Ditto ...	New application rejected.	2	...	...	...	...	...	2
Ditto ...	Proposal for removal rejected.	6	...	...	...	...	...	6
Ditto ...	Application for retention rejected.	6	...	...	...	...	...	6
Ditto ...	Objection against removal rejected.	2	...	...	...	...	...	2
Foreign liquor "off" ...	New application sanctioned.	1	...	...	...	...	...	1
Ditto ...	New application rejected.	2	...	...	...	...	...	2
Ditto ...	Site changed ...	1	...	...	...	...	...	1
Ditto ...	Application for retention rejected.	1	...	...	...	...	...	1
Foreign liquor "combined." ...	Proposal for transfer of site rejected.	1	...	...	...	...	...	1
Ditto ...	Site changed ...	1	...	...	...	...	...	1
Ditto ...	New application rejected.	2	...	...	...	...	...	2
Foreign liquor "canteen." ...	New application sanctioned.	1	...	...	...	...	...	1



Class of license.	Action taken.	Calcutta.	Cossipore. Chitpore.	Manick- tola.	Garden Reach.	Howrah.	Bally.	Total.
Tari ...	Abolished ...	7	...	...	...	...	...	7
Do ...	Site changed ...	1	1	1	...	...	...	3
Do ...	Application for change of site rejected	2	...	...	...	...	1	3
Opium ...	Site changed ...	3	...	...	...	...	...	3
Ganja ...	Ditto ...	1	...	...	...	...	...	1
Do ...	Proposal for re- newal rejected	1	...	...	...	...	...	1
Bhang ...	Site changed ...	1	...	...	...	...	...	1

The Calcutta Licensing Board considered a proposal made by the Lord Bishop of Calcutta to the effect that the closing hour of all bars in hotels, restaurants and places of amusements should be fixed at 10 P.M. instead of at 11 P.M. The question was eventually referred to Government and it was ordered that bars and foreign liquor "on" shops should not be opened before 11 A.M. instead of at sunrise, while the closing hours remained the same viz., 11 P.M. and 9 P.M., respectively.

As stated in last year's report, the experiment of a "dry" educational area in Calcutta was taken up during the year and has been continued since. Sanitary improvements to the shops were also continued during the year, in accordance with the suggestions of the Health Officer of the Calcutta Corporation.

#### 9. Total Revenue and Charges.—

The Excise Revenue and Charges of the Presidency for the last five years are shown below :—

Period.	Revenue.	Charges.	Net revenue.	Percent- age of charges.
	Rs.	Rs.	Rs.	
1914-15 ...	1,53,59,916	7,42,121	1,46,17,795	4.83
1915-16 ...	1,51,30,570	8,26,217	1,43,04,353	5.46
1916-17 ...	1,44,07,668	9,65,974	1,34,41,694	6.70
1917-18 ...	1,56,25,391	10,32,941	1,45,92,450	6.61
1918-19 ...	1,76,38,246	10,57,674	1,65,80,572	5.99
Difference of the past two years.	+20,12,855	+24,733	+19,88,122	- .62

11. **Actual receipts.**—Deducting the advance collections (Rs. 7,52,816) for 1919-20 and adding the revenue (Rs. 7,68,944) which was collected in advance in 1917-18, the actual receipts on account of 1918-19 were Rs. 1,76,54,374 against Rs. 1,58,27,704 (after similar adjustment) of the preceding year, showing an increase of Rs. 18,26,670 or 11.54 per cent.

#### 12. Excise Charges.—

The total expenditure of the Excise and Salt Department excluding refunds, shows an increase of Rs. 59,656 as compared with 1917-18. The principal increases occurred under the heads of "Salaries and Establishment" (Rs. 48,380) and "Allowances" (Rs. 24,583). The increases under the heads were due to the entertainment in 1918-19 of the full sanctioned number in the cadre of Inspectors and Sub-Inspectors.

#### 13. Revenue under different heads —

Revenue increased under all the main heads except "Receipts from commercial spirits including medicated wines," which decreased by Rs. 14,897. Country spirit gave the largest increase of revenue (Rs. 13,43,506); receipts under "Wines and Spirits" (foreign liquors, other than beer, medicated wines and commercial spirits) came next with an increase of Rs. 1,96,887 followed by



opium (Rs. 1,92,382), *pachwai* (Rs. 1,81,442), total receipts from hemp drugs (Rs. 91,395) and *tari* (Rs. 21,966).

14. **Demand and Collection.**— Of the gross demand of Rs. 1,76,62,837 a sum of Rs. 1,76,38,246 or 99·86 per cent. was realized. Rupees 10,725 was remitted as irrecoverable. Taking the population of the Presidency of Bengal, according to the census of 1911 to be 45,329,247, the incidence of Excise revenue (exclusive of revenue derived from issues of excisable articles to other provinces, Native States and foreign countries) was 6 annas 2 pies against 5 annas 5 pies in the previous year.

15. **Result of settlements for the current year up to 31st May 1919.**— The settlements for the current year show a net increase of Rs. 8,53,669.

The results under the different heads are as follows :—

					Rs.
Country spirit	...	...	...	+	1,34,182
Foreign liquor	...	...	...	+	11,841
Fermented <i>tari</i>	...	...	...	-	17,606
<i>Pachwai</i> retail	...	...	...	-	91,149
Hemp drugs	...	...	...	+	4,25,729
Opium	...	...	...	+	3,90,672

License fees for country spirit increased in fifteen districts and decreased in the remaining twelve districts. The largest increase occurred in Hooghly (Rs. 1,34,808). This increase and the increase in the 24-Parganas (Rs. 45,678) are due to the fixing of fees on the basis of the increased consumption in the year under report. In Mymensingh the increase (Rs. 24,216) is due to the settlement of shops at higher fees under the auction system. Calcutta shows a heavy decrease of Rs. 69,520 owing to the abolition of 15 shops. The increase under foreign liquor is not very heavy and does not call for any remarks. The decrease under fermented *tari* is mainly due to the introduction of the tree-tax system from October 1918 in the Hooghly and the Howrah districts. The greater part of the decrease under *pachwai* is shared by Burdwan (Rs. 51,792), Birbhum (Rs. 21,804) and Bankura (Rs. 16,785) amounting to Rs. 90,381, due mainly to settlement at reduced fees owing to high prices of rice and other food-stuffs. The increases under opium and hemp drugs are large, and represent a recovery from the previous year's decreases, which were brought about by an enhancement in the treasury price of opium and high wholesale prices of *ganja* prevailing in 1917-18. The increases are largest in Hooghly (Rs. 5,32,260), Calcutta (Rs. 1,18,175) and Mymensingh (Rs. 77,964) and also exceed Rs. 20,000, in Burdwan (Rs. 39,924) and Nadia (Rs. 29,688). The increases in Hooghly and in Calcutta are due to the basing of the fees on the year's consumption which was larger in case of *ganja* under the fixed-fee system. In the case of Mymensingh the increase is due to the settlement of shops at enhanced license fees. The only heavy decrease occurred in Howrah (Rs. 66,509) where the fees were based on the reduced consumption of the year. The figures for the "fixed-fee" districts can only be regarded as an estimate, as the license fees in these districts for the current year will depend on the current year's consumption.

## SECTION II—Country Liquor.

### Country spirit.

17. **System.**—The system of contract supply was the only system in force in this Presidency during the year under report.

18. **Country Spirit licenses.**—The number of licenses for the sale of country spirit was 1,148 as compared with 1,162 in 1917-18, a decrease of 14. One new shop was opened with the approval of the Advisory Committee in a village in Birbhum to meet ascertained local demand which was being met



illicitly. In the district of Midnapore two shops were closed for want of adequate bids. Under the orders of the Licensing Board two shops within the Calcutta Municipality and one in the Howrah Municipality were abolished. Five shops in Jessore and one each in Mymensingh and Noakhali were closed, as the sales were insufficient. One shop was also closed in Jalpaiguri as being unnecessary, while two shops in the district of Darjeeling were closed as no one was willing to take them on account of their isolated sites and fear of lawlessness.

19. **The fixed fee system in Calcutta.**—During the year two advances in the retail prices of country spirit were made in Calcutta, one from the 1st October 1918, and the other from the 1st February 1919. The last increase in prices was substantial and was as follows :—

- 25° U. P. from Rs. 12-5-6 to Rs. 13-14-0.
- 40 U. P. from Rs. 9-12-6 to Rs. 11-1-6.
- 70° U. P. from Rs. 4-12-6 to Rs. 5-7-0.

It will be observed that the new system was originally introduced with Rs. 11-4 as price per gallon of 25° U. P. and nearly the same price, viz., Rs. 11-1-6 is now being enforced for liquor of 40° U.P. which is considerably weaker. This increase in the prices of the different strengths has arrested the tendency to a rise in consumption. It may be mentioned here that the duty on the imperial gallon of the higher strength in Calcutta and the suburbs is proportionately higher than the tariff rate of duty on foreign liquor.

20. **The fixed fee system in other districts.**—The fixed fee system was in force in the districts of Howrah and 24-Parganas and in the Sadar and Serampore subdivisions of Hooghly, as in the previous year. The system has been introduced from the 1st April 1919 in the district of Midnapore under Government Order No. 215S.R., dated the 20th January 1919. The introduction of the system was followed by a considerable increase in consumption, due to reasons similar to those for Calcutta and discussed in last year's report. The more flagrant forms of dilution and other malpractices are of rare occurrence now. Two forward steps were taken, as in Calcutta, to push up duty and prices and the results have proved satisfactory.

21. **Consumption.**—The total consumption of country spirit in the Presidency amounted to 796,972 proof gallons as compared with 700,586 proof gallons in the preceding year, an increase of 96,386 proof gallons.

Consumption increased in 19 districts and decreased in 8. In 4 of the former and three of the latter the fluctuation was less than 5 per cent. The further increase in Calcutta in the year under report only represents the natural tendency of the consumption to go up, now that the prices are fixed and the malpractices by the vendors have been brought under control. Outside Calcutta, the increase in consumption was considerable in Dacca (9,325 proof gallons or 66·3 per cent.), due partly to sale at reduced prices owing to competition among vendors and partly to closer supervision over the shops, in the 24-Parganas, Howrah and Hooghly (29,299 proof gallons or 60·2 per cent., 6,730 proof gallons or 53·4 per cent. and 10,007 proof gallons or 38·4 per cent., respectively), due as noted above to the check of dilution, short measures and other malpractices on the part of the vendors, as a result of the introduction of the fixed-fee system of settlement, which has brought about a considerable improvement in the personnel of the vendors, in Murshidabad (2,449 proof gallons or 27·2 per cent.), in Nadia (943 proof gallons or 17·1 per cent) due in both the districts to better control over vendors, and in Burdwan (5,503 proof gallons or 12·2 per cent.), where the increase is said to be due to the larger employment of labourers in the colliery areas of the Asansol subdivision. The increase in the other districts does not call for any special remarks. It may be mentioned here that the high prices of foreign liquor and the gradual effect of the increased staff and efficiency of the Department in checking illicit distillation have also contributed to a part of the increase in consumption in many districts.



The only districts in which the decrease exceeded 10 per cent. were Noakhali (145 gallons or 17·3 per cent.) and Rajshahi (1,512 gallons or 15·05 per cent.). In both these districts the decrease is attributed to the high price of food-stuffs and other necessities of life.

**23. Total revenue from country spirit.**—The total revenue—license and distillery fees and duty—from country spirit was Rs. 78,42,678 against Rs. 64,99,172, an increase of Rs. 13,43,506. The revenue derived from duty and distillery fees increased by Rs. 11,59,157 and that from license-fees by Rs. 1,84,349.

**24. Convictions for drunkenness and action taken against licensees for permitting it.**—

In Calcutta 8,609 persons were convicted of drunkenness as compared with 9,213 in the previous year, but it is impossible to say what proportions of these cases were due to country spirit, *tari* and foreign liquor, respectively. Two cases have been reported—one from each of the districts of Calcutta and Dinajpur—in which vendors of country spirit permitted drunkenness and disorderly conduct on or near the licensed premises. Both the cases were dealt with under section 65 of the Excise Act.

**25. Distilleries and Warehouses.**—There was no change in the number of contract distillers. The contract with the Bengal Distilleries Company at Konnagar, which was an annual one, expired on the 31st March 1919 and has not been renewed and Messrs. Haji Ismail Sait and Sons, Contractors of the Russa Distillery, have been granted the exclusive privilege of supply by wholesale of country spirit at the rate of Rs. 1-6 per L. P. gallon to the areas previously supplied from the distillery at Konnagar for a period of two years from the 1st April 1919. The warehouses at Tamluk, Ghatal and Uluberia were abolished during the year and in their place a new one has been opened at Kolaghat.

On several occasions the supplies from distilleries to the bonded warehouses fell short of the prescribed minimum, and in some cases the position threatened to be serious. There was, however, no actual difficulty in supplying the retail vendors and no shop had to remain closed for want of supply.

**27. Introduction of the Tree-tax System in Hooghly and Howrah.**—Since October 1918 the tree-tax system has been introduced in the Sadar and Serampore subdivisions of the Hooghly district and the whole of the Howrah district (with the exception of areas included in the Calcutta district) by Notification No. 2447 S.R., dated the 30th August 1918. The system consists of the levy of a tax on each tree tapped for the production of fermented *tari* in addition to a vend license fee for each shop which is settled by auction. The tree-tapping licenses are issued on the application of (1) licensed retail vendors, (2) of tappers and (3) of tree owners (for not more than five trees in any period of twelve months ending the 30th September) and no *tari* is drawn from any tree until the latter has been properly marked. The *tari* year begins on the 1st October, the 1st April being obviously unsuitable, falling as it does in the middle of the *tari* season, and it ends on the 30th September following. The tax has been fixed at Rs. 2 for each date and palmyra tree tapped. In the beginning the system met with considerable opposition from the retail vendors, but ultimately the opposition died out and the shops were settled without much difficulty owing to the tact of the local officers.

The total number of tree-tapping licenses issued were :—

(1) Number of tapping licenses issued on application of vendors	...	...	...	...	1,057
(2) Number of tapping licenses issued to tappers on their own application	...	...	...	...	6
(3) Number of tapping licenses issued to tree owners for domestic consumption	...	...	...	...	891



The total revenue from *tari* in the two districts shows a small decrease of Rs. 4,348. It is at present difficult to gauge accurately the financial results of the system, but the revenue realized during the second half of the year under report, when the system came into force, shows a considerable increase as compared with the corresponding period of the previous year, thereby indicating that the system will prove a financial success, besides introducing some control over the price of fermented *tari*. One special feature of this year's administration appears to be that not a single complaint of *tari*-drunkenness has been received from the *bhadralog* class of the rural areas against several such complaints of last and the previous years. This is due to a large extent to the introduction of the tree-tax system, under which unrestricted tapping and drinking of *tari* have been brought under control. Some improvements in the rules for the working of the system are at present under consideration.

28. **Statistics.**—The total number of licenses issued for the sale of fermented and fresh *tari* increased from 2,319 to 2,401 and the total receipts from Rs. 4,94,172 to Rs. 5,16,138.

29. **Fermented *tari*.**—The number of fermented *tari* licenses decreased from 630 to 628. The chief reduction was effected in Hooghly where 8 shops were abolished. The bulk of the fermented *tari* revenue is derived from the Burdwan and Presidency Divisions and the district of Malda, which contributed Rs. 4,82,573 out of a total revenue under this head of Rs. 5,10,485. This amount includes Rs. 27,569 and Rs. 18,912 as license fees and Rs. 16,491 and Rs. 22,800 on account of tree-tax for the districts of Hooghly and Howrah, respectively. License fees, including the tree-tax fees, increased by Rs. 21,597 as compared with the previous year. The increase was most marked in the 24-Parganas (Rs. 21,464), Midnapore (Rs. 5,911), Burdwan (Rs. 2,627), and Dacca (Rs. 1,272), whilst there were decreases of Rs. 3,545 in Hooghly, Rs. 2,452 in Rajshahi, Rs. 1,872 in Calcutta and Rs. 1,235 in Malda.

#### Pachwai.

31. **Licenses.**—The total number of licenses issued for retail sale, home brewing (annual) and manufacture on special occasions was 31,896 as compared with 34,787 in 1917-18 :—

	1917-18.	1918-19.
Retail sale	1,313	1,214
Home-brewing (annual)	33,040	30,316
Manufacture on special occasions	434	366

The number of retail licenses decreased in Midnapore (6), Burdwan (5), Birbhum (2) and Darjeeling (1). The decrease in Midnapore was due to the shops remaining unsettled. In Burdwan it was due to the abolition of shops in thinly populated areas where the demand is small. Elsewhere the decrease was also due to abolition. From the beginning of the year the shop system, which did not prove a success, was abolished in the district of 24-Parganas and the system of home-brewing licenses was re-introduced under Government Order No. 690S.R., dated the 8th March 1918. The shops merely covered a combination of 5 or 6 families which joined together to take out license in the name of their headman in whose house *pachwai* was manufactured, after which each family removed the outturn of *pachwai* made from the quantity of rice supplied by it. There was continued default in the payment of license-fees. Moreover, the local conditions in the Sunderbans were such that it was practically impossible to provide enough shops to suffice for the different localities which are not easily accessible. Retail shops for *pachwai* are not liked as a rule, as curiously there are sub-castes amongst the aboriginal tribes and one sub-caste will not take the *pachwai* manufactured by another. Rupee 1-8 for each household was realised from the 1st April to the 31st December 1918 and from the 1st January 1919 home-brewing licenses were issued at the rate of Rs. 2 for each household. The total number of home-brewing licenses issued in the 24-Parganas was 3,386. There



was an increase of 590 licenses in Mymensingh and a decrease of 2,538 in Dinajpur, 2,024 in Malda, 573 in Jalpaiguri, 410 in Rajshahi, 394 in Pabna, 341 in Rangpur, 261 in Dacca, 103 in Darjeeling, 38 in Tippera and 18 in Bogra.

The continuous decrease in Dinajpur was due to the migration of Santals on account of flood, drought and high prices of food stuffs. Elsewhere also the decrease was due to the bad economic condition of the aboriginal tribes.

32. **Revenue.**—The revenue from retail license fees increased from Rs. 7,91,521 to Rs. 9,75,731. The increase was considerable in Burdwan (Rs. 1,73,822), Bankura (Rs. 10,819), Birbhum (Rs. 2,454) and Hooghly (Rs. 2,302) and was due to higher fees obtained at auction and in Bankura to a more accurate valuation of the shops. The large increase in Burdwan is stated to be due to bumper crops. The chief decreases occurred in Murshidabad (Rs. 2,376) and 24-Parganas (Rs. 1,979). The revenue from home-brewing licenses decreased from Rs. 52,531 to Rs. 49,763.

### SECTION III.—Foreign Liquor.

34. **Clearances of foreign liquor from the Custom Houses, Calcutta and Chittagong.**—The following statistics showing clearances on payment of duty both direct and from bond from Custom Houses are quoted from statements furnished by the Collectors of Customs, Calcutta and Chittagong :—

	1917-18.		1918-19.	
	Calcutta.	Chittagong.	Calcutta.	Chittagong.
	Gallons.	Gallons.	Gallons.	Gallons.
Ale, beer and porter ...	503,851	2,129	621,272	1,099
Cider and other fermented liquors.	1,780	.....	1,244	.....
<i>Spirits and liqueurs.</i>				
Brandy ...	55,687	301	50,569	32
Whisky ...	188,880	1,937	171,684	1,420
Other sorts of spirits and liqueurs.	268,569	1	376,097	.....
Wines ...	60,487	109	59,240	362
	575,971		659,404	

The Collector of Customs, Calcutta, explains the statistics for the Port of Calcutta in 1918-19 as follows :—

"*Ale, Beer and Porter.*—Imports of beer from the United Kingdom have again declined in volume owing to restricted brewing under the orders of the Ministry of Food ; and Dutch beer has almost dropped out, doubtless for similar reasons. Arrivals from Japan have on the other hand increased by 63 per cent. in spite of advanced prices, and that country supplied two-thirds of the total imports. Good quality beers were imported from America and Australia in increased quantities.

"*Spirits.*—Supplies of brandy from the United Kingdom and France were more freely obtainable, the latter country sending 82 per cent. of the whole. Importers of whisky have been reluctant to lay in fresh stocks at the greatly enhanced prices prevailing ; and in fact clearances for consumption declined by 17,000 gallons, whereas imports declined by 10,000 gallons only.

Imports of



gin recovered to a normal level owing to the removal of restrictions in England and to the arrival of some supplies from the United States of America. Heavy shipments of *Java rum* (commonly called arrack) were made after the settlement of the difficulties which for a time prevented Dutch shipping from visiting British ports and the total imports were 341,861 liquid gallons, of which almost exactly half was methylated with the prescribed denaturants before being cleared through the Customs.

"Wines.—The increase is practically confined to Spanish wines, supplies from other established markets having actually undergone a further decline, especially *port* from the United Kingdom and *vermouth* from France. Besides breaking all records in the quantity of *sherry*, *madeira* and *marsala* supplied (6,064 gallons direct in addition to 3,927 gallons from the United Kingdom and elsewhere), Spain has sent surprisingly large quantities of "substitute" *ports* and *vermouth* (1,350 gallons and 9,697 gallons, respectively); these wines were, however, decidedly inferior in quality."

The Customs Department have kindly furnished the following statistics of imports and issues on payment of duty of potable foreign spirits at the Calcutta Custom House :—

YEARS.	IMPORTED (L. P. GALLONS).				ISSUED ON PAYMENT OF DUTY (L. P. GALLONS).			
	Brandy, whisky, rum and gin.	Java arrack.	White and rectified spirits.	Total.	Brandy, whisky, rum and gin.	Java arrack.	White and rectified spirits.	Total.
1916-17	283,646	57,896	3,764	345,306	230,779	40,338	2,684	273,801
1917-18	275,983	9,454	...	285,437	246,949	10,408	151	257,508
1918-19	384,376	188,833	...	523,209	251,391	8,484	210	255,085

#### Wines and Spirits (other than Medicated Wines and Commercial Spirits) and Beer.

36. **Licenses and Revenue.**—The total number of licenses issued for wholesale and retail vend was 602 against 569 in the previous year. There were decreases under heads "off" (3), hotel (2), restaurant (1), late-closing (11), steamer (1) and dāk bungalow (1); and increases under heads wholesale (5), bar (1), temporary bar (42), canteen (3) and railway refreshment room (1). The increase in wholesale licenses occurred in Calcutta and that in temporary bar licenses in Burdwan, Calcutta and Darjeeling. No late-closing license was issued in Calcutta during the year under report.

The total receipts from license fees amounted to Rs. 2,95,665 against Rs. 2,98,725 in the preceding year. The decrease was due to decreased consumption of foreign liquor, which affected the settlement of the foreign liquor shops. The receipts from duty on potable foreign liquor manufactured in India were Rs. 7,97,000 against Rs. 5,97,053 in the preceding year. The increase was due to the fact that the high price of the foreign liquor imported from outside caused a decrease in its consumption and a consequent increase in the consumption of the Indian-made foreign liquor which paid duty under head "Excise." The question of labelling of bottles containing local blends of whisky, etc., came under examination and orders were passed to the effect that all labels should conform strictly to the provisions contained in the Merchandise Marks Manual. For the first time in Bengal, a Firm took out a license for the manufacture of wine from raisins and for the distillation of spirit from the lees thereof. A quantity of 1,027·8 gallons of wines thus made was issued on payment of duty.



37. **Rum manufactured in India.**—The following quantities of rum manufactured in India were issued during the year from distilleries and excise warehouses in Bengal :—

Place of manufacture.			On payment of duty.	Duty free.
			L. P. gallons.	L. P. gallons.
Konnagar	...	...	245	...
Russa	...	...	18,840	...
Asansol	...	...	24247	...
Shahjehanpur	...	...	13,985	468
Anwarganj	...	...	1,445	...

The above figures include 50 proof gallons of Asansol rum and 300 proof gallons of Shahjehanpur rum issued at a reduced rate of duty of Rs. 7 and Rs. 5, respectively, per proof gallon, to the Lakhimpur Battalion. Duty-free issues were made to the Mayo, Campbell and Medical College Hospitals, Calcutta, to the Central Lunatic Asylum, Berhampore, and to the Political Officer, North-Eastern Frontier. The issues of rum increased by nearly 36 per cent. as compared with the preceding year.

In addition to the issues of rum, 2,445 proof gallons of plain spirits manufactured by the Russa Distillery, 4,556 proof gallons manufactured by the Asansol Distillery and 4,110 proof gallons manufactured by Dr. K. C. Bose's Distillery at Bahir Mirzapore Road, Calcutta, were issued to holders of compounding licenses who manufactured local blends of brandy, whisky and rum. A quantity of 1,027 gallons of brandy and whisky received in bond from Anwarganj was issued from the Calcutta Excise warehouse and 3,330 gallons of brandy and whisky were issued from the Russa Distillery.

38. **Sale of spirits at strengths below the prescribed minimum.**—No case of this nature came to notice during the year under report.

39. **Locally manufactured beer.**—The number of breweries licensed was two as in the previous year, but only the brewery at Sonada manufactured beer during the year. The brewery at St. Mary's Seminary at Kurseong, which used to brew beer for the inmates of the Seminary, was not worked, though a license was taken by the Curator of the Seminary.

Duty was charged on 65,670 gallons against 59,123 gallons in the preceding year. The continued increase was due to the higher price of the imported article. Receipts from license fees and duty amounted to Rs. 18,634 against Rs. 16,793 in the previous year.

#### Medicated Wines and Rectified Spirits.

40. **Licenses and Revenue.**—The number of licenses for the retail sale of medicated wines and rectified spirits was 124 and 26, respectively, as compared with 117 and 24 in 1917-18. The revenue from license fees was Rs. 7,700 against Rs. 7,000 in the previous year.

41. **Manufacture and issue of rectified spirits.**—Rectified spirits were manufactured in the distilleries at Asansol, Konnagar, Russa and Bahir-Mirzapore Road, Calcutta.

The following quantities of rectified spirits were issued during the year for medicinal, industrial and scientific purposes from distilleries and excise warehouses in Bengal :—

Place of manufacture.			On payment of duty.	Duty free.	For manufacture of tinctures and absolute alcohol in bonded laboratories.
			L. P. gallons.	L. P. gallons.	L. P. gallons.
Asansol	...	...	6,699	28,101	17,025
Konnagar	...	...	2,368	16	1,409
Russa	...	...	2,405	2,273	6,503
Anwarganj	...	...	285	...	...
Bahir-Mirzapore Road	...	...	5,122	5	4,750



Asansol spirit was issued duty-free to the Rifle Factory, Ichapore, the Gun and Shell Factory, Cossipore, the Ammunition Factory, Dum-Dum, the Ordnance Department, Fort William, the Medical Store-keeper to Government, Calcutta, the Zoological Survey of India, the Botanical Survey of India, the Chemical Examiner for Customs and Excise, Calcutta, and the Mathematical Instrument Office, Calcutta; Konnagar spirit to the Agricultural Chemist, Pusa; and Russa spirit to the Munitions Board and the Fibre Expert, Dacca. Duty-free issues were also made through Messrs. Smith Stanistreet & Co., Messrs. B. K. Paul & Co. and Dr. K. C. Bose from the warehouses attached to their bonded laboratories, to charitable dispensaries in Bengal, Bihar and Orissa and Assam.

42. **Manufacture of tinctures, etc., in bonded laboratories.**—Four bonded laboratories manufactured tinctures, etc., during the year under report, as in the previous year. Duty was paid on 12,632 proof gallons of spirit contained in tinctures and medicinal preparations issued from these laboratories, whilst medicinal preparations containing 7,162 proof gallons of spirits were issued duty free to charitable dispensaries in the various provinces.

#### SECTION IV.—Hemp Drugs.

##### Ganja.

48. **Retail Licenses.**—The total number of licenses issued in the Presidency for the retail sale of *ganja* was 1,265 as compared with 1,267 in 1917-18.

49. **Consumption of *ganja*.**—The total quantity of *ganja* consumed in the Presidency amounted to 1,975 maunds 38 seers as compared with 1,908 maunds 20 seers in 1917-18, an increase of 67 maunds 18 seers. Consumption increased in 16 districts including all the districts (except the 24-Parganas) of the Presidency and Chittagong Divisions and decreased in eleven. The increase exceeded 10 per cent. in Tippera (18½ maunds or 29·21), Murshidabad (7½ maunds or 24·83), Nadia (8 maunds or 22·76), Calcutta (45½ maunds or 18·68), Chittagong (4½ maunds or 11·99); it exceeded 3 maunds in Dacca (5 maunds 18 seers), Midnapore (4 maunds 28 seers) and Bakarganj (3 maunds 4 seers). The increase is generally due to the fall in the retail price in consequence of the wholesale price having been fixed at Rs. 3 per seer in the Presidency. The increase in Calcutta merely represents a recovery from the drop in the previous year, which was due to the retail prices having been fixed at a much higher rate than in former years, and shows that consumers have adjusted themselves to the higher price. The Collector of Tippera reports that marked fluctuation in the sales occurred in a few shops in the Brahmanberia subdivision, which was due to the reduction in the cost price of *ganja* and also to the check imposed against the introduction of the drug from Sylhet and Hill Tippera by the special Railway Excise Staff and by a special preventive party located on the border.

The decrease exceeded 10 per cent. only in Dinajpur (14½ maunds or 18·48) and it exceeded 3 maunds in Burdwan (5 maunds 1 seer), and Rangpur (5 maunds 36 seers). The fall in consumption in Burdwan was mainly due to a considerable increase in the retail price following on the increased fees obtained at the settlement and that in Dinajpur and Rangpur to the continuance of unfavourable economic conditions.

50. **Total Revenue.**—The total receipts for the year amounted to Rs. 34,79,285 against Rs. 34,18,874 in 1917-18, the net increase being Rs. 60,411.

51. **Incidence of Taxation.**—The incidence of license fees per seer of *ganja* consumed was Rs. 23·3 and that of duty Rs. 20. The total taxation was Rs. 43·3 per seer as in the previous year.



54. **Cultivation and outturn of Ganja at Naugaon in Rajshahi.**—The price of the 1918 crop was fixed at Rs. 300 per maund until the 31st March 1918, and it was reduced to Rs. 135 from the 1st April for the wholesale dealers of other Provinces and Rs. 120 for the retail vendors in Bengal. The fact that all the *ganja* produced would be purchased and paid for in April, and the prospect of a further bonus in December, drew a larger number of applications than even in the preceding year, when, as stated in last year's report, the number went up considerably owing to the smallness of the 1917 crop and consequent high prices. This illustrates the popularity of the new system under which the *Ganja* Cultivators' Co-operative Society has been established. Three thousand nine-hundred and ninety-six applications were received for an area of 7,223 bighas against 3,444 applications for an area of 5,541 bighas in the previous year. Two thousand four hundred and thirty-five licenses covering an area of 2,999 bighas 14 cottahs and 9 chataks were granted as compared with 3,008 licenses covering an area of 3,099 bighas 17 cottahs and 2 chataks in 1917-18. The area actually cultivated with *ganja* was 3,047 bighas 6 cottahs and 5 chataks against 3,082 bighas 9 cottahs and 10 chataks in the preceding year. The area under cultivation was sufficiently tested and as a result a very large number of cases of excess cultivation was detected. The prospects of the crop were not favourable from the beginning. There was an unprecedented flood at the end of August which swept over the whole of the *ganja* mahal and destroyed *ganja* seedlings and in consequence a low outturn was apprehended. A further area of 250 bighas was sanctioned for cultivation. The cultivators took utmost care to make good the loss. Fresh nurseries were prepared as soon as the flood receded. The crop of many plots was considerably damaged by caterpillar. Red spider pest also damaged the crop to some extent. The outturn, however, eventually proved to be better than what had been anticipated, being 2 maunds 11 seers and 11 chataks per bigha. This shows that under the new system the cultivators will take much more trouble, as they are assured of the sale of the whole crop and cannot, on the other hand, speculate on high prices by the smallness of the outturn. The total quantity of *ganja* stored in the public golas amounted to 6,988 maunds 6 seers 2 chataks as compared with 8,132 maunds 24 seers and 14 chataks in the preceding season.

55. **Manufacture and Storage.**— The cost of cultivation and manufacture is reported to have been Rs. 47 per maund as compared with Rs. 43 in 1917-18. The prolonged drought which necessitated the irrigation of *ganja* lands for about four times against two in normal years and also the additional expense of retransplantation caused by the flood rendered the cost of production higher than in the previous year.

57. **Receipts, Issues and Balances at the Public Golas, and Wholesale Prices at Naugaon.**—

The total exports from Naugaon during the year amounted to 5,665 maunds 10 seers 2 chataks against 5,140 maunds 2 chataks in the preceding year.

**Bhang.**

59. **Licenses and Revenue.**—The number of retail licenses in the year under report was 239 against 220 in 1917-18. Three shops were opened in each of the districts of Bankura, Dacca, Jalpaiguri and Rangpur, two in each of the districts of Jessore, Khulna and Pabna, one each in Birbhum, Midnapore and Faridpur, all with the approval of the Advisory Committees to meet ascertained local demand. Two shops were abolished in Burdwan—one at Sadar and the other at Asansol,—one in each place being quite sufficient to meet the requirements. The total number of druggists' permits issued was 297 as compared with 261 in the preceding year. There were noticeable increases in the Presidency (20), Dacca (13) and Chittagong (5) Divisions. The total revenue from license fees and duty amounted to Rs. 1,43,476 as compared with Rs. 1,24,496 in 1917-18.



## SECTION VI.—Cocaine.

72. **Licenses and Revenue.**—Two hundred and fifty-two licenses were issued during the year to chemists and druggists for the sale of cocaine, as compared with 227 in 1917-18. Forty-two permits for the possession of cocaine were issued free to managers of hospitals or dispensaries not under Government supervision, viz., twenty licenses for tea gardens in Jalpaiguri, five for charitable dispensaries in Midnapore, four in the 24-Parganas, three in each of the districts of Nadia and Tippera, two in Murshidabad and one each in Burdwan, Calcutta, Khulna, Faridpur and Noakhali. Eighteen permits were issued to qualified medical practitioners and dentists in Calcutta, twelve in Burdwan, three in Chittagong, two in each of the districts of the 24-Parganas and Faridpur and one in Howrah for possession and use of the drug in the course of their practice. The total revenue from license fees amounted to Rs. 267 during the year as compared with Rs. 231 in 1917-18.

73. **Preventive operations and illicit transactions.**—The illicit trade in cocaine seems to have declined to some extent for want of supplies from Germany and Austria, though, as noted in the last year's report, cocaine of Japanese origin has appeared in the market, and there are indications to show that opium is exchanged for cocaine by smugglers. The abuse of cocaine continues in the Calcutta district and in the neighbouring parts of the 24-Parganas district, in the town of Burdwan and in the Serampore subdivision of the Hooghly district. The Collector of Dacca reports that the habit of taking cocaine which was prevalent among some low-class Mahomedans and women in Dacca has greatly decreased. The number of persons convicted of illicit possession, sale or smuggling of cocaine fell from 191 to 183. In Calcutta the number was 164 as compared with 162 in 1917-18. No case deserving of special mention in this chapter was brought to light in the year under review; this was no doubt due to the scarcity of the drug.

The total quantity of cocaine seized in Bengal during the year was 23 lbs. and  $\frac{1}{2}$  ounce, as compared with 39 lbs. 7 ounces 388 grains in 1917-18. Only 24 ounces 341 grains were seized outside the Calcutta district and of this quantity more than 24 ounces were seized in Burdwan. In Calcutta 136 ounces were seized by Excise Officers, 201 ounces by Customs officers and 7 $\frac{1}{2}$  ounces by Police officers.

## SECTION VII—Offences against the Excise and Opium Laws.

### 75. **Prosecutions and convictions.**

The total number of persons arrested during the year was 6,637 as compared with 6,353 in the previous year. Of these 5,965 were convicted during the year against 5,691 in 1917-18. The number of arrests increased in 16 districts out of 27 and was due to the progressively improved working of the re-organized department; it was also partly due to the working of the Special Preventive staff. The increase was most marked in the 24-Parganas (186), Burdwan (132), Howrah (83), Dinajpur (78), Murshidabad (67), Hooghly (66), Midnapore (61) and Faridpur (50). The decrease was largest in Bankura (162), Birbhum (134), Jalpaiguri (114), Nadia (101) and Chittagong (82). The decrease in Bankura is said to be due to the fact that the partial failure of the *mahua* crop and the high price of rice reduced the illicit manufacture of country spirit and *pachwai*, respectively. In Birbhum it is said that the deterrent punishments in the previous year had some effect, but it is doubtful how far this is a complete explanation. The decrease in Jalpaiguri has been explained elsewhere. In the other two districts no sufficient explanation has been given.



**76. Classification of Offences.**—Five hundred and forty persons were arrested for illicit distillation and 116 for possession and sale of illicit country spirit as compared with 793 and 182, respectively, in the preceding year. The chief increases under these two heads taken together occurred in the 24-Parganas (43), Calcutta (12) and Mymensingh (12), and the chief decreases in Midnapore (207), Bankura (68), Burdwan (22), Chittagong (20) and Hooghly (15). In a case in the 24-Parganas, the offender used to distil country spirit for sale as the kabiraji medicine *Mrita Sanjibani Sudha* or *Sura*. Another person was similarly prosecuted and convicted in Pabna for illicit possession and sale of distilled *Sanjibani Sudha*. The detection of some important cases of illicit distillation in 1917-18 in the suburbs of Calcutta and in the industrial areas in the Serampore subdivision of the Hooghly district and the Barrackpore subdivision of the 24-Parganas district, had a deterrent effect in these areas during the year under report. A case of illicit distillation was sent up wrongly by the President-Panchayat of a Chowkidari Union in Khulna district without consulting the Excise or Police authorities, and ended in acquittal; in consequence, an order has been passed to the effect that he will not be re-appointed as President-Panchayat on the next occasion. In the same district a case of abstraction of O. P. spirit from a cask lying in the railway godown was detected and two persons in railway employ were prosecuted.

In the Mymensingh district several batches of illicit distillation cases were sent up, the offenders belonging to the hill tribes. The implements used were of a primitive nature; the liquor was manufactured not only for domestic consumption but also for sale. Illicit distillation as well as possession and sale of illicit country spirit continued to be as prevalent as ever in the Bakarganj district. The offenders are chiefly low-class Hindus, who are supported by local petty *talukdars* having a pecuniary interest in the illicit traffic. It is difficult to suppress this form of crime without co-operation from the public. In the Sunderbans area of that district the Mughas generally distil liquor from the juice of *gol* trees which are very common there. Informers are not available, as there is great combination amongst the Mughas. The Collector reports that they are a desperate class of people, and go about armed with a sharp edged weapon called a *seni*. Some special preventive measures appear to be necessary to put down illicit distillation in this district, and this matter will receive my attention when I go there. In the Jalpaiguri district almost all the cases were detected in the tea gardens, the offenders being Paharias and Bhutias. Similarly, in Darjeeling, the offenders belonged to the Kami class (blacksmiths) and were coolies in the tea gardens.

The large decrease in this form of crime in the Midnapore district was due to the partial failure of the *mahua* crop, as has already been explained in the case of Bankura district. The number of persons arrested for unlicensed sale of duty-paid country spirit increased from 120 to 181; the greater part of the increase occurred in Calcutta, where 141 persons were sent up against 100 in the preceding year. The accused in most of the cases were prostitutes. The number of persons arrested for illicit possession of duty-paid country spirit increased by 14; there was a decrease in the previous year, which has been made up to some extent.

Prosecutions under the head "Illicit import, export or transport of country liquor" fell from 214 to 163. The decrease in Jalpaiguri (70) was very large and was due to the removal of the Bhutan outstills away from the common boundary.

There were 22 arrests for illicit sale of foreign liquor as compared with 34 in 1917-18. In Chittagong two dealers in miscellaneous articles were convicted for sale without license of *Manola*, a medicated wine. In Pabna a registered medical practitioner was convicted for illicit sale of rectified spirit from his dispensary; taking advantage of his position he used to sell it to people for consumption, after dilution, in lieu of country spirit.

In a fair in the district of Bogra, a stall-keeper was found selling some bottles of "Wine vinegar" which was suspected to have intoxicating properties. A bottle was sent to the Chemical Examiner for analysis and he found that the sample had an alcoholic strength of 27.9 per cent. proof (72.1 U. P.).



The accused was sent up for trial, but the defence was that he had bought the bottles as "Wine vinegar" and sold them in the same condition. He was acquitted as the trying Magistrate held that "a man should not be punished for sale of articles containing alcohol which he innocently purchased as vinegar and sold it as such." It is necessary for the Excise officers to be on the look out for these so-called bottles of "Wine vinegar," and tackle the original manufacturer.

The number of arrests in *tari* cases increased by 382. The chief increases occurred in the 24-Parganas (260), Murshidabad (50), Hooghly (26), Burdwan (21) and Howrah (15). These offences are very common and the increase in the arrests has no special significance.

The arrests under the head "Illicit manufacture, possession or sale of *pachwai*" increased by 35. The largest increases were 250 in Midnapore and 96 in Burdwan, whilst there were considerable decreases in Birbhum (99), Bankura (83), the 24-Parganas (78), Calcutta (45) and Darjeeling (30). The increase in Midnapore is ascribed to the activity shown by the District Preventive staff.

Seven persons were arrested for illicit cultivation of poppy against four in the preceding year. A respectable person of Salboni in the Midnapore district was prosecuted and convicted for cultivating a poppy plant from which opium was extracted.

Taking the figures under the two heads "Illicit Opium" and "Treasury Opium" together, the number of arrests increased from 483 to 629, or by 146 persons. The arrests increased by 98 in Calcutta, 40 in Midnapore, 24 in Hooghly and 22 in Howrah, whilst there were marked decrease in Chittagong (30) and Jalpaiguri (12). The total quantity of opium seized in Bengal amounted to 72 maunds 21 seers of which 51 maunds were seized in Calcutta alone. Twenty maunds 39 seers were seized by the Special staff at different railway stations. The Customs Officers made 92 seizures amounting in all to 17 maunds 21 seers. Twenty-nine maunds and thirty-five seers were seized by the Excise Officers in Calcutta as compared with 37 maunds 10 seers in the preceding year, 1 maund 26 seers, 1 maund 5 seers and 32 seers were seized by the Calcutta Police, Howrah Railway Police and Sealdah Railway Police, respectively. Some very important arrests were made, especially by the Calcutta staff, but as details have already been given in the Excise Supplement to the *Criminal Intelligence Gazette*, it is unnecessary to reproduce them here. Mention may, however, be made of one or two cases which are of special interest and new in the history of opium smuggling. They will show how the smugglers in Calcutta are now trying to get their stuff by rail to Calcutta with the help of European and Eurasian carriers. One F. W. Sharpe was arrested with a maund of opium at the Howrah railway station when getting into a taxi from a train. The Excise Sub-Inspector, who detected the case, displayed much detective ability, patience and tact in arresting the offender. The accused was armed with a 7-chambered revolver, fully loaded and the Sub-Inspector and other arresting officers ran great personal risk. Mr. H. Rance, the Deputy Superintendent at the railway station, rendered this Department very valuable help in this case. The accused was sentenced to undergo six months' rigorous imprisonment with a fine of Rs. 300, in default a further period of rigorous imprisonment for 3 months. In another case one G. Fitzgerald was arrested with 20 seers of opium at the Chandernagar railway station. He was living in one of the principal hotels in French Chandernagar, carrying on this business for some time. He was sentenced to four months' rigorous imprisonment. A third case of very great importance deserves to be mentioned here. The Superintendent of Excise, Preventive Branch, Calcutta, with two of his Inspectors, went to Motihari in the Province of Bihar and Orissa and under the Collector's orders arrested one Lalu Pandit, a Nepali subject, and his confederate, Ali Reza, while they were trying to sell one maund of opium to one of the Inspectors of Excise, who had posed as a bogus *mahajan*. Lalu Pandit is a notorious opium smuggler living just on the borders of Nepal, who used to send Nepal opium in large quantities to the smugglers in Calcutta, Bombay and the United Provinces. It was reported that this case



was his 146th transaction of its kind. Both the accused were sentenced to undergo rigorous imprisonment for one year and to a fine of Rs. 200, in default 6 months' further rigorous imprisonment. The Sessions Judge of Muzaffarpur, however, reduced the sentence to three months' rigorous imprisonment each. The Calcutta smugglers, finding that great vigilance is being kept at Howrah and other terminal stations, now bring their opium in parcels booked to some way-side station below Burdwan and thence by taxi to Calcutta or they get it by boat by the Bhagirathi or Hooghly river. Some women have also been arrested while carrying opium for the smugglers, and it is believed that they will be employed in larger numbers in future. Several ingenious methods of bringing opium were discovered last year, *e.g.*, opium in eggs-shells, opium in figs, opium in clubs, opium in legs of *charpoys*, etc.

One special feature of the year in connection with the seizure of opium in railway parcels by the Calcutta and the special staffs was that while in previous year no trace of the culprits could be found in the majority of the cases, the consignees or their agents were arrested in most of the cases and successfully prosecuted in the year under report.

Two hundred and thirty-two persons were arrested for illicit possession or sale of *madak* and *chandu* against 259 in 1917-18.

The arrests for illicit cultivation or collection of *ganja* or *bhang* increased by 33, of which Bakarganj alone was responsible for 23. In Dacca, specially in the Manikganj subdivision, there is much spontaneous growth of *bhang* and it is not possible to exterminate it. It was suspected that people sometimes used this wild *bhang* secretly as an intoxicant. Two hundred and seventy-five persons were arrested for unlicensed sale of hemp drugs against 278 in 1917-18. There was no marked fluctuation in any district except Calcutta, which showed a decrease of 33 persons. There were 264 arrests under the head, "Illicit possession of *ganja*," against 228 in the preceding year. The increases were 19 in Hooghly and 15 in Rajshahi, while Chittagong showed a decrease of 17 persons. There were 13 prosecutions under the head "Illicit possession of *chgras*," against *nil* in the previous year. The arrests chiefly occurred in Calcutta (8) and Burdwan (3). The arrests for unlawful import, export and transport of hemp drugs fell from 155 to 146 or by 9 persons. The decreases chiefly occurred in Jalpaiguri (34), Birbhum (19) and Midnapore (16), whilst Dinajpur showed an increase of 35. The arrests under the head "Illicit sale or possession of Cocaine" decreased by 5 persons. The most important case and very interesting from its nature was the one detected by the Calcutta Excise staff in which a bench clerk of the Presidency Magistrate's Court was sent up for selling cocaine which had formed the subject matter of trial in previous cases and which had remained in the custody of the Court after the disposal of the cases before being made over to the Collector of Excise. On receipt of definite information that the accused was in the habit of disposing of cocaine and opium in this way the Excise staff went to the court premises and found the accused ready to deliver cocaine to a purchaser. He was sentenced to 4 months' rigorous imprisonment and a fine of Rs. 500.



## DEPARTMENT OF AGRICULTURE, BENGAL.

## First Forecast of the winter rice crop of Bengal for 1919-20.

(Note.—On an average of the 5 years ending 1917-18 the area under winter rice in Bengal represents some 19·1 per cent of the total area under rice in British India.)

Two crops, agriculturally distinct, are returned in the Winter Rice Forecasts, one the broadcasted deep water rice found mostly in Eastern Bengal and sown from the beginning of March onwards, the other and more important crop being transplanted from seed-beds in July and August. Early rainfall (but not floods) suits the sowing of the broadcast crop and of seed-beds for the transplanted varieties. Good general rainfall in July and August permits of a large area of the transplanted crop being planted, while plentiful showers in October secure a full crop in those districts where the soil is, on account of its high situation or of its comparative porosity, not ideally suitable for paddy cultivation. Both crops are harvested about the same time, the main crop being generally cut in December.

**Character of the season.**—The weather was, on account of drought, unfavourable for the sowing of low land broadcast *aman* rice in February and March. In consequence a good deal of the low land crop was sown late, on showers in the beginning of April. This portion of the crop was considerably benefited by the comparatively scanty rain and slow rise of the rivers in May and June, and its condition may now be said to be good.

Regarding transplanted *aman*, in the Burdwan Division the season has so far been uniformly favourable for the crop, which promises very well in consequence. In the Presidency Division conditions were not quite so good. In North and East Bengal the short rainfall in July and August retarded transplanting very considerably. Late in August, however, and also in September, there has been good rainfall throughout North and East Bengal, with the result that the area now under transplanted rice probably approaches the normal.

The cyclone which passed over East Bengal on September 24th, 1919, did comparatively little damage to the rice crop, excepting in the case of deep water paddy growing in water where a strong current was running. In these circumstances portions of the crop were uprooted and carried away, but the loss is not serious. The heavy rain which accompanied the cyclone has done great good to the transplanted paddy.

**Acresage.**—According to the figures returned by district officers the total area under the winter rice crop is 15,379,400 acres, as compared with 15,945,800 and 15,895,800 in the corresponding and final forecasts last year. The decrease is to be attributed chiefly to the want of timely rainfall. It is necessary to remark, however, that, in several districts, transplanting extended considerably beyond the date on which the returns were sent in. Some district officers have already, on this account, increased their estimates, and others may find it necessary to do so.

**Outturn.**—From the summary of the district returns appended it will be seen that Bankura anticipates 158 per cent outturn, a super-abundant crop; while Rangpur reports 62 per cent, the lowest outturn. Four districts expect a normal crop; fourteen districts from 93 to 80 per cent; and the rest return between 79 and 66 per cent of the normal.

On the basis of the above figures the provincial crop expectations are 89 per cent of the normal, against 90 and 72 per cent in the corresponding and final forecasts of the last year.

ROBERT S. FINLOW,

Offg. Director of Agriculture, Bengal.

Dacca,

The 13th October 1919.



## APPENDIX I.

## First Forecast of the Winter Rice Crop of Bengal, 1919-20.

DISTRICT.	Estimated normal area under winter rice.	Estimated area under winter rice.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of broadcasted winter rice commenced this year, and whether that date was early, normal or late.	Date by which the transplanting of winter rice commenced this year, and whether that date was early, normal or late.	Remarks by District Officers.
		Last year (1918-19).	This year (1919-20).	Last year.	This year.			
	Acres.*	Acres.	Acres.					
M. aghans ...	1,041,500	892,300	826,100	83	92	May; normal	July; normal	The decrease in area is due to want of rain in due time in some parts and excessive rain in other parts of the district. In Diamond Harbour subdivision weather has not been favourable and paddy in low lands was submerged. In Basirhat subdivision weather was favourable at the sowing time but proved unfavourable later on owing to incessant rainfall, and in both these subdivisions a little damage has been done to the crop owing to excessive rain, and the outturn is expected to fall below the normal. The increase in the revised normal area under winter rice is due to the fact that considerable tracts in the Sunderbans have been brought under cultivation.
Nadia ...	136,800	136,600	132,100	88	88	April; normal	July; normal	The increase in area is due to favourable weather at the sowing time. Some damage was done by flood in certain quarters. The yield will probably be below normal on account of want of timely rainfall.
Mursidabad	246,600	226,300	206,700	84	86	June to July; normal but late in Kandl.	End of July; generally late.	The decrease in area is due to want of rain at the beginning which retarded the progress of transplantation, but the condition has improved now.
Jessore ...	568,100	462,900	454,900	67	80	April; normal	July; normal	The decrease in area is due to unfavourable weather at the sowing time. Drought in June and July has considerably damaged the broadcast crop. The weather at present is favourable. The outturn is expected to fall below the normal owing to flood in the Narail and Magura subdivisions as well as the want of rainfall in June and July.
Khulna ...	826,300	724,100	701,900	85	88	Middle of June normal.	Middle of July; normal.	The decrease in area is due to untimely heavy rainfall and inundation of salt water. Some damage has been done to seedlings owing to heavy rain and rising of the river.
Burdwan ...	874,800	700,000	726,000	66	92	End of May to middle of June; late in places.	Middle of June to August; generally late.	The increase of area sown is due to timely rainfall in Ansoni and in some parts of the Sadar subdivision. The weather has been favourable. The features of this year are, generally, somewhat insufficient rain for transplantation in June and July, and abundant rain in August and up to September 8th. The rainfall was unevenly distributed and consequently transplantation greatly delayed in some areas. All depends on the rainfall of the next 6 weeks, but the prospects on September 8th are of a normal crop for the whole district.
Birbhum ...	604,600	601,600	601,600	87	92	May; normal	June; normal	The weather has been fair.
Bankura ...	810,600	840,000	825,000	62.5	100	Middle of June; normal.	Middle of July; normal.	Sufficient rainfall and reclamation of new lands caused the increase in area. The weather has all along been favourable and rainfall sufficient. A super-bumper crop is expected.
Meinapore ...	1,587,100	1,648,000	1,492,800	60	100	May; normal	August; late	The decrease in area is due to shortage of seedlings and flood. Weather at the sowing time was favourable, but excessive rainfall and flood effected some damage later on in low lying lands.
Hugli ...	276,700	196,600	206,600	73	88	In Baranpur and Sadar subdivisions, May and June; normal. In Arambagh, beginning of July, late.	End of July; late.	The increase in area is due to good rainfall. Weather has been fair in Sadar subdivision, but want of rain delayed the transplantation. Weather has been favourable in Baranpur, but unfavourable in Arambagh. The outturn is expected to fall below the normal owing to late transplantation.
Howrah ...	126,200	314,400	119,600	76	98	Middle of May; early.	Middle of July; normal.	The increase in area is due to high prices of paddy and timely rainfall. The weather has been favourable.
Rajshahi ...	697,000	620,000	646,800	88	90	April; normal.	Latter part of July; normal.	The increase is due to more extensive cultivation owing to the failure of last year's crop owing to flood. Rain was defective at the sowing time but the weather proved favourable at the time of transplantation. The estimated outturn is expected to fall somewhat below the normal owing to insufficient rainfall at the sowing time.
Dinajpur ...	1,190,800	1,019,100	963,400	87.3	75	Middle of May; normal.	Middle of July; normal.	The decrease in area is due to insufficient rainfall. The weather has not been favourable. Some damage has been done by drought.

\* Revised.



DISTRICT.	Estimated normal area under winter rice.	Estimated area under winter rice.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of broadcasted winter rice commenced this year, and whether that date was early, normal or late.	Date by which the transplanting of winter rice commenced this year, and whether that date was early, normal or late.	Remarks by District Officers.
		Last year (1918-19.)	This year (1919-20.)	Last year.	This year.			
	Acres.	Acres.	Acres.					
Jalpaiguri ...	661,300	497,400	400,000	85	83	...	June and July; Alipur, Pata-kata, Maina-guri; nor-mal; July and August; Baikuntapur and Bhalka; late.	The decrease in area sown is due to scanty rainfall, but as there has been good rainfall recently the area will probably increase. The weather has been very unfavourable up to the beginning of September, but at present the prospects are much brighter. Transplanting was much delayed owing to drought. A normal outturn cannot be expected owing to late transplanting and want of moisture for paddy already transplanted.
Darjeeling ...	65,900	26,900	23,500	92	83	May; normal	July; normal	The decrease in area sown is due to want of timely rainfall. The weather has been fair. The want of sufficient rain in the Terai in August is expected to cause the outturn to fall below the normal.
Bangpur ...	593,900	474,000	552,000	59	62	May; normal	Beginning of July; late.	The large decrease in area sown is due to exceedingly scanty rainfall. Large tracts have remained untransplanted and transplanted seedlings have suffered owing to scanty rains since July. The recent rain is likely to improve the situation.
Bogra ...	303,600	430,000	448,000	44	79	May; late	End of July; late.	The decrease in area sown is due to low flood and want of sufficient rainfall, there being much less transplantation than usual in the eastern parts of the district. The rainfall was late. The weather has, however, improved afterwards except in the eastern part of the district. The broadcast paddy has also been damaged to some extent for the above reason. The outturn is, therefore, expected to be below the normal.
Pabna ...	566,000	520,000	393,500	50	79	End of March; normal.	Beginning of August; normal.	The decrease in area sown is due to want of rain at the sowing time, but subsequent rainfall improved the crop. The crop has been damaged to some extent by flood, but the flood water has subsided now suddenly. If it does not rain sufficiently now the outturn would be much below the normal.
Maida ...	296,900	220,000	300,000	60	83	June, normal...	July; late	The increase in area sown is due to favourable weather all through the district, except in a few places where crop suffered a little for want of rain in the month of August. But the condition has since then improved. Owing to want of timely rainfall in places the outturn is expected to be below the normal.
Dacca ...	647,900	649,000	681,800	76	79	End of March to April; normal.	July; normal...	Increase due to late rains on account of which some lands which would have been sown with jute have been devoted to aman paddy. Weather has not been favourable on the whole. Insufficient rain affected the cultivation which retarded the growth of the crop. Unfavourable weather and lowness of water-level affected the outturn. Generally speaking the transplanted crop is better than the broadcast variety.
Mymensingh ...	1,129,700	969,700	969,700	75	86	First part of April; normal.	First part of July; normal.	Weather has not been favourable. More rain was wanted during the sowing time. Roughly estimated, about 30 per cent. damage has been done to the crop by drought which has lowered the outturn of the crop below the normal.
Faridpur ...	770,100	740,000	734,700	89	100	March and the beginning of April; normal.	...	The decrease in area is due to increase in area under jute. The weather has been favourable to the growth of the crop.
Baharganj ...	1,300,000	1,340,000	1,342,500	120	100	April and May; Normal.	Middle of July; Normal.	The increase in area sown is due to the reclamation of the Sundarbans and to the high price of rice. The weather was favourable at the sowing time, but flood in the first part of August had done some damage to the young seedlings and delayed the progress of transplanting operations.
Chittagong ...	418,400	426,100	420,800	95	100	June and July; normal.	July and August; normal.	The increase in area sown is due to the extension of cultivation in consequence of the rise in the price of rice. The weather has been favourable and a normal outturn is expected.
Tippera ...	728,900	780,600	786,000	60	83	April; normal	August; normal	This increase in area is due to the failure of last aman crop. The weather was dry at the sowing time but has improved later on and is now good. The outturn has fallen below the normal for want of rain. The condition of broadcast aman is good.
Moakhali ...	610,000	600,000	600,000	85	76	April; normal	August; normal.	The weather was favourable at the sowing time but insufficient rainfall retarded the growth of the crop, which accounts for the low outturn.
Chittagong Hill Tracts.	47,800	41,800	48,000	100	67	Middle of July; normal.	1st part of August; normal.	The increase in area is due to spread of plough cultivation among the hillmen. Weather has been fair. More rain is however wanted.
Total Bengal	16,843,800	16,895,800	16,379,400	79	89			



## Statement showing the Normal and Actual Rainfall in inches in each district during May to August 1919.

DISTRICT.	MAY.		JUNE.		JULY.		AUGUST.	
	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.
1. 24 Parganas ... ..	8'53	4'32	11'23	15'73	13'21	14'32	13'31	12'37
2. Nadia ... ..	6'56	5'98	9'85	8'99	10'17	12'09	10'52	7'53
3. Murshidabad ... ..	5'33	6'18	10'48	9'71	10'94	10'92	11'00	8'66
4. Jessore ... ..	7'56	4'73	11'84	9'61	10'96	13'25	16'76	10'56
5. Khulna ... ..	7'74	5'92	12'83	13'38	15'04	20'26	12'56	16'41
6. Burdwan ... ..	5'06	5'39	10'73	8'11	11'29	10'71	11'12	10'11
7. Birbhum ... ..	4'33	4'67	10'42	8'65	12'42	14'62	11'73	14'40
8. Bankura ... ..	4'35	5'64	9'75	9'73	11'22	13'16	11'10	14'69
9. Midnapore ... ..	5'39	5'57	11'25	16'73	12'47	10'23	11'00	16'97
10. Hooghly ... ..	5'67	3'84	9'93	9'01	12'06	11'54	11'40	12'56
11. Howrah ... ..	5'36	5'45	11'18	13'07	12'92	14'59	11'17	23'17
12. Rajshahi ... ..	6'06	3'03	11'06	10'42	11'60	17'18	10'43	10'30
13. Dinajpur ... ..	7'10	4'67	14'65	12'06	16'16	15'73	14'21	6'05
14. Jalpaiguri ... ..	14'37	9'71	27'09	20'15	24'06	26'01	28'92	11'01
15. Darjeeling ... ..	9'19	7'69	22'41	22'24	21'24	24'46	26'30	17'09
16. Rangpur ... ..	12'11	6'42	16'96	17'29	14'64	13'12	13'21	8'33
17. Bogra ... ..	8'26	6'53	12'73	8'22	12'71	17'48	12'02	6'99
18. Pabna ... ..	7'49	3'62	11'57	7'06	11'10	14'62	10'95	12'67
19. Malda ... ..	4'65	3'39	10'65	12'31	11'74	21'22	11'11	12'65
20. Dacca ... ..	10'11	4'53	14'43	6'68	12'66	16'67	12'65	9'91
21. Mymensingh ... ..	11'69	7'24	17'90	14'99	16'27	21'26	16'98	10'33
22. Faridpur ... ..	10'21	5'22	13'03	10'77	12'20	20'05	12'06	14'96
23. Baharganj ... ..	9'29	2'23	12'13	12'25	12'15	22'74	16'25	20'14
24. Chittagong ... ..	10'24	2'24	22'52	24'24	26'60	25'28	22'79	26'71
25. Tippera ... ..	11'23	4'63	16'06	12'65	12'71	16'43	14'01	12'74
26. Noakhali ... ..	11'02	2'74	21'13	24'30	22'73	27'74	22'49	22'16
27. Chittagong Hill Tracts ...	10'21	2'56	12'99	14'16	20'28	22'14	17'37	12'46



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 18th October 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 4 0	9 8 0	0 4 3	0 4 6
" medium	9 10 0	9 14 0	0 5 3	0 5 6
Patnai, coarse	8 10 0	9 2 0	0 3 9	0 4 0
" medium	9 4 0	10 4 0	0 5 3	0 5 6
Nagra, coarse	8 14 0	9 4 0	0 3 9	0 4 0
" medium	9 6 0	10 10 0	0 5 3	0 5 6
Dudhkalma	9 4 0	9 6 0	0 4 0	.....
Rangoon Boiled	.....	.....	0 3 6	.....
Kajla	7 12 0	8 2 0	0 3 6	.....
Wheat, Dudhia	7 12 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 2 0	.....	.....	.....
Gram, Patnai (whole)	7 8 0	7 12 0	0 2 6	0 3 0
" dal	9 0 0	9 8 0	0 3 6	0 4 0
Mung " (Hari)	10 0 0	11 0 0	0 8 0	.....
" " (Krishna)	10 8 0	11 4 0	0 5 0	0 6 0
Arhar "	8 0 0	11 8 0	0 3 6	0 5 0
Masur " (split)	7 2 0	8 6 0	0 3 0	0 4 0
" " (Khanri)	10 4 0	11 4 0	0 4 6	.....
Kalai "	8 0 0	9 0 0	0 3 3	0 4 0
Salt	3 3 6	3 7 0	0 1 6	0 1 9
Sugar (Brown Java)	19 13 0	.....	0 8 0	0 10 0
Gur, Bheli	.....	.....	0 4 6	0 5 0
" Bhursut	11 0 0	11 4 0	0 5 0	0 6 0
Milk	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	34 12 0	36 12 0	1 0 0	1 1 0
Flour (country)	9 4 0	10 0 0	0 4 6	0 5 0
Atta, No. 3	7 10 0	.....	0 3 6	0 5 0
" " 2½	7 14 0			
" " B	10 4 0			
Suji	9 15 0	10 0 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	84 0 0	85 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	78 0 0	79 0 0	2 3 0	2 4 0
Maize	5 8 0	6 0 0	.....	.....
Potato	7 0 0	8 0 0	0 3 0	0 4 0
Patal	8 0 0	9 0 0	0 3 6	0 5 0
Brinjál	5 0 0	6 0 0	0 3 0	0 3 6
Onion	4 0 0	4 4 0	0 2 0	0 3 0
Fish, Rahu	20 0 0	25 0 0	0 12 0	0 14 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of price of the following markets :—

*Wholesale*.—Chetla Hát, Ramkrishnapur Hát, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail*.—Sir Stuart Hogg Market, Orphanganj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 20th October 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 16th October 1919.

**Summary.**—During the week the rainfall throughout the province was generally light. More rain is needed for the growth of winter paddy, especially in the West Bengal districts. Steeping and washing of jute are almost finished. Preparation of lands for the next spring crops and their sowings continue. The condition and prospects of standing crops are generally favourable. The average price of common rice for the province has fallen by about 0.53 per cent. as compared with that of the previous week. Five hundred and sixty persons have received gratuitous relief in the Brahmanbaria subdivision of the Tippera district. The conditions in Bankura are published separately.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	0.09	{ 4 1/4 6 1/2 }	{ 5 6 3/4 }	Harvesting of <i>aus</i> paddy and steeping and washing of jute continue. Fodder and water are sufficient.
	Diamond Harbour.	0.69	{ 4 1/2 5 1/6 }	{ 4 1/2 5 3/4 }	
	Barrackpore	1.28	{ 4 1/2 6 }	{ 4 1/2 6 }	
	Barasat ...	0.35	{ 3 1/2 5 }	{ 4 1/2 5 }	
	Basirhat ...	0.28	{ 6 6 }	{ 5 1/2 5 1/2 }	
2	NADIA ...	2.13	{ 5 6 3/4 }	{ 4 1/2 6 3/4 }	Prospects of standing crops are fair. Lands are being prepared for <i>rabi</i> crops. Steeping and washing of jute are almost finished. More rain is wanted for <i>aman</i> paddy.
	Kushtia ...	Nil	{ 4 1/2 6 }	{ 4 1/2 6 }	
	Meherpur ...	2.50	{ 6 1/2 5 1/8 }	{ 6 1/2 6 1/2 }	
	Chnadanga...	0.15	{ 4 1/2 6 }	{ 4 1/2 6 }	
	Ranaghat ...	Nil	{ 4 1/2 6 }	{ 4 1/2 6 }	
3	MURSHIDABAD	1.90	{ 4 1/2 5 }	{ 5 5 }	Rain is wanted for <i>aman</i> paddy in many parts. Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops has commenced. Fodder is sufficient. No large import or export. Harvesting of jute is finished.
	Lalbagh ...	0.68	{ 5 6 1/2 }	{ 5 5 }	
	Jangipur ...	0.54	{ 5 1/2 (n) }	{ 5 1/2 (n) }	
	Kandi ...	(n)	{ 5 (n) }	{ 5 (n) }	
4	JESSORE ...	Nil	{ 4 1/2 5 }	{ 5 1/2 5 1/2 }	Standing crops are doing well. Condition and prospects of jute are fair and washing continues. Fodder is sufficient.
	Jhenidah ...	1.29	{ 5 4 }	{ 5 1/2 4 1/2 }	
	Magura ...	0.30	{ 4 1/2 4 1/2 }	{ 4 4 }	
	Narail ...	0.23	{ 5 4 1/2 }	{ 5 1/2 4 1/2 }	
	Bangaon ...	0.96	{ 5 4 1/2 }	{ 5 1/2 4 1/2 }	
5	KHULNA ...	0.45	{ 5 1/2 6 }	{ 4 1/2 6 }	Fodder and water are sufficient.
	Satkhira ...	Nil	{ 4 1/2 4 1/2 }	{ 4 4 }	
	Bagerhat ...	Nil	{ 4 1/2 5 1/2 }	{ 4 1/2 5 1/2 }	
6	BURDWAN ...	1.07	{ 5 6 to 6 1/2 }	{ 5 6 1/2 }	Weather cool and dry. Paddy is suffering for want of rain. The condition of sugarcane crop is fair. Harvesting of <i>aus</i> paddy is almost over. Export of rice is reported from Kalna and Katwa. Burma rice sells 6 to 6 1/2 seers a rupee.
	Asansol ...	1.55	{ 4 5 }	{ 5 5 1/2 }	
	Katwa ...	1.71	{ 5 4 1/2 }	{ 5 1/2 5 }	
	Kalna ...	1.25	{ 4 1/2 4 1/2 }	{ 5 5 }	

• Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SERIES. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
7	BIRBHUM ...	Inches 1.40	5½	5½	Rain is wanted. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	Nil	5½	5½	
8	BANKURA ...	3.00	{ 5 6. }	{ 5½ 6. }	More rain is wanted for paddy on high lands. Export of rice and paddy is going on. Reaping of <i>aus</i> paddy still continues.
	Vishnupur...	0.08	5½	5½	
9	MIDNAPORE	0.68	{ 5 5½ to 6½ }	{ 5 6½ }	Prospects of standing crops are fair, excepting in Ghatal where they are withering owing to drought. Lands for mustard, wheat and potatoes are being prepared.
	Ghatal ...	1.09	{ 5 5½† 5½ }	{ 5½ 5½† }	
	Tamluk ...	Nil	{ 4½ 5½† 6½ }	{ 4½ 5½† 5½ }	
	Contai ...	.04	{ 5 5½† 5½ }	{ 5 5½† }	
			{ 4½ 5½ to 6½ }	{ 4½ 5½ to 6½ }	
10	HOOGHLY ...	0.49	{ 5½ to 6½ }	{ 5½ to 6½ }	Effects of weather on the growth of the crops are unfavourable. Fodder is sufficient. More rain is urgently needed. Price of rice is steady.
	Serampore ...	0.42	{ 5½ 6. }	{ (n) }	
	Arambagh ...	0.12	5½	5½	
11	HOWRAH ...	0.38	{ 4½ 6½ }	{ 5 6½ }	Weather seasonable. More rain is wanted in Uluberia subdivision. Harvesting of jute is over. Fodder is sufficient.
	Uluberia ...	Nil	{ 4½ 6. }	{ 5 6. }	
12	RAJSHAHI (RAMPUR- BOALIA).	0.31	{ 4½ 5½ }	{ 4½ 5½ }	Prospects of standing crops are favourable. Lands are being prepared for <i>rabi</i> crops. Harvesting of jute is finished. Fodder is sufficient. Cattle disease is reported from Walia and Bagatpara thanas.
	Naogaon ...	0.68	{ 3½ 5½ }	{ 3½ 5½ }	
	Nator ...	2.05	{ 4½ 5½ }	{ 4½ 5½ }	
13	DINAJPUR ...	9.08	4½	{ 4½ 5½ 6. }	Prospects of standing crops are fair. Harvesting of jute and other <i>bhadi</i> crops is nearly finished. Rice market is stationary. Export of paddy and rice is going on.
	Thakurgaon	3.10	4½	4½	
	Balurghat ...	3.43	4	3½	
14	JALPAIGURI...	1.55	{ 4½ 6. }	{ 4 6. }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	3.42	{ 3½ 5. }	{ 3½ 5. }	
15	DARJEELING	Nil	{ 4½ 5½† 5½ }	{ 4½ 5½† 5½ }	Transplantation of winter rice is completed. Potatoes and cardamom are being harvested. Harvesting of maize is completed. <i>Marua</i> and paddy are progressing. Stocks of food-grains are inadequate in places. Import of Burma rice has done much good. Fodder and water are sufficient. Cattle-disease is reported from some places.
	Kurseong ...	Nil	{ 4½ 5½† 5½ }	{ 4½ 5½† 5½ }	
	Siliguri ...	0.01	{ 4½ 6. }	{ 4½ 6. }	
	Kalimpong...	Nil	{ 4 5½† }	{ 3½ }	

\* Burma rice.

† Coarse rice.

‡ *Aus* rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
16	RANGPUR ...	2.79	4½	4	Weather seasonable. Steeping of jute and transplantation of winter paddy are almost finished. Lands are being prepared for spring crops. Effects of rainfall on the growth of the crops are good. Consignments of Burma rice for the Sadar subdivision have not yet been received. Stocks of food-grains, fodder and water are sufficient. Cattle-disease is reported from Gaibandha thana.
	Nilphamari	Nil	{ 4½ 5½ }	4½	
	Kurigram ...	6.28	{ 4 5 }	4	
	Gaibandha ...	8.86	{ 4½ 5½ }	4½	
17	BOGRA ...	0.87	{ 3½ 5½ }	4½ 5½ }	Harvesting of jute is nearing completion. Prospects are fair. Lands are being prepared for <i>rabi</i> crops.
18	PABNA ...	1.19	{ 5 4½ }	5½ 6 }	Prospects of standing crops are good. Fodder is sufficient.
	Sirajganj ...	(n)	(n)	(n)	
19	MALDA ...	Nil	{ 5 6 }	5 6 }	Lands are being prepared for <i>rabi</i> crops. Sowing of mustard has commenced. Fodder and water are sufficient.
20	COOCH BEHAR	1.60	7½	7½	Weather is seasonable. Fodder is sufficient. Burma rice is not available. Washing of jute is in progress.
21	DACCA ...	0.34	{ 3½ 5½ }	3½ 5½ }	The weather has been favourable for agricultural operations. Harvesting of jute is nearly finished and that of early <i>aman</i> has started in some places. Cattle-disease is reported from Rupganj thana. Prospects of winter rice are fair.
	Manikganj ...	Nil	{ 3½ 5½ }	{ 3½ to 5 }	
	Narayanganj	1.12	{ 3½ 5½ }	3½ 5½ }	
	Munshiganj (a)	(n)	(n)	(n)	
22	MYMENSINGH	1.67	{ 3 5½ }	3½ 5½ }	Weather clear with occasional showers. Harvesting and steeping of jute are going on. Some damage to transplanted paddy in <i>char</i> lands on account of the rise of rivers is reported from Jamalpur. Prospects of crops are fair. Fodder and water are sufficient.
	Jamalpur ...	0.29	{ 3½ 5½ }	3½ 5½ }	
	Tangail ...	(n)	(n)	{ 3½ 5½ }	
	Netrakona ...	1.30	{ 3½ 5½ }	3½ 4½ }	
	Kishorganj...	4.20	{ 3½ 5 }	3½ 5 }	

(n) Not reported.

\* Burma rice.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	1.13	{ 4 5½° }	{ 3½ 5½° }	The weather is favourable to crops. Sowing of <i>rabi</i> crops commenced. Stock is not sufficient at Gopalganj. Prospects of standing crops are fair. Harvesting of sugarcane has nearly been finished at Madaripur. Insufficiency of fodder is reported from Gopalganj.
	Goalundo ...	0.47	{ 4½ 5½° }	{ 4 5½° }	
	Madaripur ...	0.38	{ 4 5½° }	{ 4 }	
	Gopalganj(a)	Nil	{ 4½ 5½° }	{ (n) }	
24	BAKARGANJ (BARISAL).	1.00	{ 3½ 4½ 6° }	{ 3½ 4½ 6½° }	Fodder is sufficient. Prospects of standing crops are good.
	Piroipur ...	0.26	{ 3½ 5½° }	{ 4 5½° }	
	Patuakhali ...	1.13	{ 4 5½ 6° }	{ 3½ 4½ 6° }	
	Dakshin Shabazpur (Bhola).	0.61	{ 3½ 3½ 3½° }	{ 3½ 4½ }	
25	CHITTAGONG	Nil	{ 5½ 6½° }	{ 5½ 6½° }	Prospects of standing crops are good. Lands are being prepared for <i>rabi</i> crops. <i>Panga</i> salt is selling at 8½ and 9 seers per rupee both at Sadar and Cox's Bazar respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 5½ 6° }	{ 4½ 6° }	
26	TIPPERA (COMILLA).	0.10	{ 5 5½° }	{ 4½ 6° }	Prospects of standing crops are hopeful. Demand for controlled rice is great. Price of rice is still ruling high. Cattle disease is reported from Sadar and Brahmanbaria subdivisions. 560 persons have received gratuitous relief in Brahmanbaria subdivision.
	Brahmanbaria.	0.10	{ 4½ 5½° }	{ 4½ 5½° }	
	Chandpur ...	0.58	{ 4½ 5½° }	{ 4½ 4½° }	
27	NOAKHALI ...	0.82	4½	{ 4½ 4½ 6½° }	Prospects of standing crops are good. Fodder is sufficient.
	Feni ...	0.21	5	{ 3½ 4½° }	
28	CHITTAGONG HILL TRACTS.	1.82	{ 6 8½ 5° }	{ 5° 6 7½ }	Condition of plough partly is fair. Harvesting of <i>jhum</i> paddy continues. Out-turn is fair. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

° Burma rice.

† Local rice.

‡ Aus rice.

J. C. ROY,

for Director of Agriculture, Bengal.

Dacca, the 20th October 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of September 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 10 0	4 14 0	3 4 0	2 0 0	3 8 0	3 14 0	...
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 14 0	4 7 0	2 7 0	2 4 0	3 12 0	3 14 0	...
Kalna ...	...	...	...	...	...	...	...
Baniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 8 0	4 8 0	2 1 0	2 4 0	3 12 0	3 14 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	5 12 0	6 8 0	4 4 0	3 4 0	3 8 0	4 0 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 0 0	5 0 0	2 10 0	2 12 0	3 4 0	3 7 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 12 0	5 12 0	2 8 0	2 14 0	3 12 0	3 8 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 10 0	2 12 0	2 8 0	3 4 0	3 8 0	...
Obelia Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 2 0	4 0 0	2 5 0	2 1 0	3 4 0	3 8 0	...
Kalna ...	...	...	...	...	...	...	...
Baniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 8 0	4 4 0	1 14 0	1 14 0	2 11 0	3 8 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	5 14 0	5 12 0	3 12 0	3 0 0	3 0 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 12 0	5 5 3	2 6 0	2 8 0	3 0 0	3 1 0	3 5 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	5 0 0	2 4 0	2 8 0	3 0 0	2 4 0	3 0 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of September 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	10 0 0	7 8 0	7 0 0	7 14 0	8 0 0	7 8 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 4 0	8 10 0	8 0 0	8 2 0	9 0 0	8 8 0	8 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	9 0 0	9 4 0	8 0 0	8 0 0	6 4 0	7 8 0	8 10 0
Chittagong ...	12 0 0	14 0 0	8 0 0	7 0 0	9 0 0	10 0 0	8 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	12 8 0	11 0 0	8 8 0	8 0 0	6 8 0	7 8 0	8 4 0
Narayanaganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	10 8 0	11 0 0	8 0 0	7 8 0	7 8 0	8 12 0	8 10 0 to 8 0 0
Birajganj ...	...	...	...	...	...	...	...
Rangpur ...	12 8 0	12 8 0	8 4 0	8 4 0	7 4 0	7 10 0	8 0 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	8 12 0	8 4 0	6 2 0	7 4 0	8 4 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 8 0	8 0 0	8 0 0	8 12 0	8 0 0	8 0 0	8 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0	8 0 0	4 4 0	4 0 0	8 4 0	6 4 0	4 12 0
Chittagong ...	8 0 0	8 8 0	8 0 0	4 4 0	8 4 0	8 8 0	8 4 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	11 0 0	10 8 0	6 4 0	8 4 0	6 0 0	6 12 0	8 8 0
Narayanaganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 4 0	9 11 0	4 8 0	4 10 0	8 8 0	8 14 0	8 8 0
Birajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 12 0	10 12 0	8 0 0	4 12 0	8 12 0	7 8 0	8 8 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of September 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	7 8 0	5 0 0	4 5 0	5 0 0	4 6 0
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 8 0	7 12 0	(a)	6 0 0	5 0 0	6 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 12 0 to 9 0 0	8 8 0	5 8 0	4 10 0 to 4 12 0	5 14 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	5 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Fabaa ...	7 0 0	7 0 0	...	4 0 0	...	...	3 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	...	...	5 4 0	5 0 0	5 8 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 8 0	9 0 0	8 0 0	5 5 0	5 12 0	...
Chella Hat ...	...	...	...	...	...	...	...
Burdwan ...	10 0 0	10 0 0	7 8 0	4 7 0	5 12 0	6 6 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0 to 11 0 0	10 0 0 to 11 0 0	8 8 0	6 12 0	4 6 0	4 8 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Fabaa ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	6 8 0	7 0 0	7 8 0	6 8 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of September 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	3 12 0	3 8 0	3 14 0	4 4 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 0 0	6 12 0	5 4 0	3 8 0	3 14 0	4 8 0	4 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0	8 0 0	5 8 0	3 12 0	4 0 0	4 12 0	...
Chittagong ...	8 12 0	8 0 0	to 7 0 0 5 8 0	4 8 0	to 4 4 0 5 0 0	5 0 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Birajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	6 0 0	5 8 0	7 10 0	7 0 0	...

Marts.	ANNAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	6 12 0	5 0 0	5 4 8	5 6 0	5 6 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	10 0 0	11 0 0	6 10 8	4 7 0	6 0 0	6 0 0	6 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 8 0	11 8 0	7 8 8	5 0 0	5 4 0	6 12 0	...
Chittagong ...	to 12 8 0 13 0 0	to 12 8 0 11 0 0	to 6 0 0 7 0 0	to 6 8 0 8 8 0	to 6 8 0 7 0 0	7 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	12 12 0	12 0 0	8 8 0	5 0 0	6 0 0	7 8 0	8 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	13 0 0	13 8 8	8 0 0	6 0 0	8 0 0	8 11 0	8 0 0
Birajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a) ...	(a) ...	6 8 0	7 0 0	7 8 0	6 12 0	8 4 0

(a) Not in stock.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of September 1919.**

Marts.	LINSSEED.			MUSTARD.			GUM.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	58	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	13 8 0	13 8 0	7 8 0	11 8 0	11 8 0	8 8 0	7 12 0	7 12 0	8 8 0	25 0 0	25 0 0	40 0 0
Chittagong	9 0 0	12 0 0	13 0 0	13 0 0	14 0 0	10 8 0	7 0 0	7 0 0	9 8 0	(a)	(a)	(a)
Dacca	10 0 0	12 0 0	8 8 0	14 12 0	15 0 0	9 8 0	9 8 0	8 8 0	8 8 0	40 0 0	40 0 0	50 0 0
Malabar	15 0 0	15 0 0	10 0 0	14 0 0	14 0 0	10 0 0	13 0 0	12 8 0	8 8 0	(b)		
Madras	12 4 0	12 0 0	6 8 0	13 0 0	12 8 0	10 0 0	14 12 0	14 8 0	11 8 0			
Patna	15 0 0	(a)	7 0 0	14 10 0	12 0 0	9 8 0	10 10 0	10 0 0	8 0 0			
Rangoon	14 8 0	14 8 0	7 0 0	13 0 0	13 0 0	7 0 0						

Marts.	JUTE.			GHEE.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	13 0 0	12 0 0	12 0 0	78 0 0	78 0 0	72 0 0	450 0 0	450 0 0	450 0 0
Chittagong	(a)	(a)	(a)	74 0 0	74 0 0	70 0 0	(a)	(a)	41 0 0
Dacca	8 8 0	9 0 0	8 0 0	80 0 0	80 0 0	70 0 0	400 0 0	425 0 0	325 0 0
Malabar	14 0 0	13 0 0	8 4 0	82 0 0	84 0 0	69 0 0	375 0 0	400 0 0	200 0 0
Madras	7 8 0	10 8 0	10 0 0	80 0 0	80 9 0	73 0 0			
Patna	7 0 0	10 0 0	8 0 0	80 0 0	80 0 0	73 0 0			
Rangoon	7 0 0	10 0 0	8 0 0	80 0 0	80 0 0	73 0 0			
Calcutta	7 0 0	10 0 0	8 0 0	75 0 0	75 0 0	60 0 0	Per piece.	Per piece.	Per piece.

(a) Not available.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of September 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	9 0 0	35 0 0	2 7 0	3 0 0	3 12 0	3 15 0(a)	3 15 0(a)	3 2 0
Chota Hat	...	...	...	...	...	...	...	...	...
Burdwan	11 0 0	15 0 0	20 0 0 to 30 0 0	2 12 0	3 0 0	4 2 0	3 2 0(b)	3 2 0(b)	4 1 0
Kalna	...	...	...	...	...	...	...	...	...
Baiganj	...	...	...	...	...	...	...	...	...
Midnapore	2 0 0 to 12 0 0	3 0 0 to 14 0 0	3 0 0 to 24 0 0	3 10 0	3 10 0	4 2 0	4 0 0(b)	4 0 0(b)	4 3 0
Chittagong	20 0 0	20 0 0	30 0 0	3 9 0	3 12 0	3 10 0	3 0 0	3 0 0	2 4 0
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	...	...	...	4 12 0	4 12 0	4 2 0	4 1 0(d)	4 1 0(d)	4 12 0
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	16 0 0 to 18 0 0	16 0 0 to 18 0 0	32 0 0	4 0 0	4 0 0	4 4 0	3 7 0	3 7 0	5 0 0
Sirajganj	...	...	...	...	...	...	...	...	...
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 0 0	4 4 0(a)	4 4 0(a)	4 0 0

(a) Monkey brand. | (b) Rising Sun. | (c) Elephant. | (d) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	23 0 0	23 0 0	25 0 0	0 8 0	0 8 0	1 0 0	...	...	...
Chota Hat	...	...	...	...	...	...	0 8 0	0 8 0	0 8 0
Burdwan	25 0 0	26 0 0	25 0 0	0 7 0	0 8 0	0 9 0	0 7 0	0 7 0	0 8 0
Kalna	...	...	...	...	...	...	0 9 0	0 9 0	0 8 0
Baiganj	...	...	...	...	...	...	0 12	0 12	0 2 10
Midnapore	35 0 0 to 39 0 0	35 0 0 to 39 0 0	26 0 0 to 28 0 0	0 7 0	0 7 0	0 7 0	...	...	...
Chittagong	40 0 0	40 0 0	29 0 0	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	42 0 0	42 0 0	35 0 0	...	...	...	...	...	...
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	43 0 0	43 0 0	28 0 0	...	...	...	...	...	...
Sirajganj	...	...	...	...	...	...	...	...	...
Rangpur	41 0 0	41 0 0	24 0 0	...	...	...	...	...	...

Dacca,  
The 16th October 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of September 1919.**

Division.	Number.	Districts and Manb.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL. ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR THUN. GADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
PRESIDENCY.		14-PARGANAW.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.
	1	Ohelia Hat ...	4 9	4 0	7 2	3 0	4 12	3 0	4 0	4 8	5 8	4 0	4 0	5 8	10 11	12 0	7 2
	2	Magra Hat ...	5 10	4 8	8 0	3 4	5 0	3 8	(a)	(a)	...	3 8	3 8	5 8	10 12	11 8	10 0
	3	Onkutta-Bellaghata	4 12	4 12	6 13	2 8	6 8	3 0	4 7	4 7	4 6	4 0	4 0	5 14	10 0	10 0	10 0
		NADIA.															
	4	Gouri ...	5 0	4 4	7 9	3 0	5 12	3 8	3 8	3 8	5 8	3 8	3 8	5 13	11 0	11 0	10 10
	5	Ranaghat ...	4 6	5 0	3 4	3 8	7 4	3 8	3 8	3 8	5 8	3 8	3 8	6 0	10 2	10 8	10 8
		MURSHIDABAD.															
	6	Berhampur ...	4 12	4 4	3 4	3 0	4 8	3 8	4 0	4 0	3 4	4 0	4 0	6 8	13 0	13 0	10 8
	7	Kandi ...	5 0	4 12	10 0	5 6	3 0	10 8	3 4	4 0	...	4 0	4 0	7 0	10 12	10 12	11 0
	8	Jangipur ...	5 8	4 12	9 8	5 10	3 0	10 10	3 8	3 8	...	3 8	4 0	7 0	13 0	13 0	10 0
BURDWAN.		JESSORE.															
	9	Sadar ...	5 0	5 5	10 0	5 5	5 14	12 0	3 0	3 4	5 8	3 4	3 4	6 0	11 8	11 4	12 0
	10	Bangson ...	4 2	4 5	3 1	3 11	5 8	10 0	2 11	2 11	4 0	3 8	3 8	5 8	11 4	11 4	9 8
		KHULNA.															
	11	Sadar ...	4 8	4 8	3 0	4 8	4 8	3 0	3 8	3 8	6 12	3 0	3 0	6 8	9 0	9 0	9 0
	12	Mukherhat ...	4 8	4 0	7 0	5 8	4 8	3 0	5 0	5 0	3 0	3 10	4 10	5 8	9 0	10 8	11 0
		BURDWAN.															
	13	Sadar ...	4 14	4 0	3 0	5 4	4 12	3 4	4 0	4 0	5 4	4 0	3 12	6 0	13 0	12 8	5 14
	14	Kalna ...	4 10	5 0	3 0	5 0	3 0	3 7	3 8	3 5	4 0	3 5	3 5	5 0	13 0	13 5	11 0
		BIRBHUM.															
	15	Suri ...	4 8	4 2	3 0	5 4	4 2	3 0	4 0	4 0	5 8	3 0	3 0	5 8	9 0	11 0	9 0
	16	Rampur Hat ...	5 0	4 12	3 12	5 4	3 0	3 0	4 0	4 0	4 0	3 0	3 8	6 0	11 0	11 0	11 0
RAJSHAH.		BANKURA.															
	17	Sadar ...	4 14	4 11	3 8	5 0	5 0	3 12	6 8	4 0	4 0	4 0	3 12	6 0	12 8	11 8	11 0
	18	Vishnupur ...	5 12	4 12	10 0	6 4	5 0	10 8	5 0	4 0	6 0	3 8	3 12	5 8	10 0	10 4	9 4
		MIDNAPORE.															
	19	Sadar ...	5 0	4 5	3 8	5 6	5 6	3 11	3 4	3 4	4 0	3 4	3 4	4 0	10 0	10 0	8 0
	20	Contal ...	6 0	6 0	...	5 4	5 4	...	3 0	3 0	...	3 0	3 0	...	3 8	3 8	...
		HOOCHLY.															
	21	Sadar ...	4 8	4 8	6 12	5 0	4 12	7 8	4 0	4 0	4 0	4 0	4 0	5 8	10 4	11 8	10 8
	22	Arambagh ...	5 12	5 12	3 8	5 14	5 14	10 0	3 4	3 4	4 0	3 4	3 4	5 0	10 10	10 10	9 0
		HOWRAH.															
	23	Sadar ...	4 12	4 8	7 8	5 4	5 0	3 4	4 8	4 0	4 8	4 0	4 0	5 0	10 12	10 0	10 0
RAJSHAH.	24	Uttarbaria ...	4 4	4 4	3 0	4 8	4 8	3 0	4 0	4 0	4 0	3 10	3 10	6 0	11 8	11 8	10 0
		RAJSHAH.															
	25	Rampur-Boalia ...	4 2	4 2	6 15	4 4	4 3	7 14	3 4	3 0	4 14	3 4	3 0	5 4	9 12	9 12	9 12
RAJSHAH.	26	Nator ...	4 2	4 0	7 8	4 8	4 8	3 0	4 0	4 0	6 0	4 0	4 0	7 14	9 8	9 8	8 0
	27	Dinajpur—Railway Bazar Haj.	4 12	4 8	7 13	3 0	4 12	3 8	3 12	3 14	5 6	3 8	3 0	6 0	10 0	10 13	8 8
	28	Jalpaiguri—Sadar ...	3 8	3 8	3 0	4 0	4 0	10 0	4 0	4 0	6 0	3 8	3 8	6 0	9 0	8 0	8 0

• Karkatoh.

(a) Not available.



**Prices-current (retail) of food-grains, salt, &c., in the districts of Bengal for the second-half of September 1919—concl.**

DIVISION.	DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SHEERS OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURR. CADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
Number.		S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
RAJSHAH.	RAJSHAH.															
	39 Sadar ...	3 0	3 0	6 12	4 0	4 0	8 0	2 12	3 0	5 8	2 12	2 12	5 0	8 0	8 0	7 0
	40 Biliguri (n) ...	3 4	3 0	9 0	2 12	3 8	10 0	3 8	3 8	8 0	3 8	3 8	8 0	8 0	8 0	8 0
	RAJSHAH.															
	41 Sadar ...	3 10	3 10	7 12	4 0	4 0	8 8	3 12	3 12	6 0	3 0	3 0	6 0	9 0	9 0	8 0
	42 Nilphamari ...	4 3	3 12	8 0	(n)	(n)	8 8	3 0	3 0	6 0	3 0	3 0	6 0	10 0	10 0	8 0
	43 Bogra—Sadar ...	3 12	3 6	6 11	4 8	3 12	8 4	3 6	3 6	6 0	3 6	3 6	4 12	9 12	9 12	8 8
	PADMA.															
	44 Sadar ...	4 4	4 0	9 8	4 12	4 8	10 8	5 4	3 14	9 8	3 0	3 0	5 4	10 8	10 8	8 0
	45 Sirajganj ...	3 12	3 12	6 8	4 0	4 0	8 0	4 8	4 8	7 4	3 12	3 12	7 8	8 0	8 0	8 0
DACA.	MAJDA.															
	46 Sadar ...	4 12	4 8	9 0	5 0	4 12	8 8	4 0	3 12	4 0	3 8	3 0	5 8	11 0	11 0	9 0
	47 Balla—Nawabganj ...	4 8	4 0	9 8	8 0	4 4	10 0	4 0	3 12	5 0	3 8	3 8	8 0	11 0	11 0	8 0
	DACCA.															
	48 Sadar ...	3 12	4 0	6 6	4 0	4 4	8 0	4 0	4 8	4 0	3 0	3 3	4 8	8 0	8 0	8 0
	49 Munshir Hat ...	3 4	3 10	8 8	3 12	4 0	(a)	(a)	(a)	(n)	(n)	(n)	(n)	8 0	8 0	8 0
	MYMENSINGH.															
	40 Nasirabad ...	4 0	4 0	6 10	5 0	5 0	6 10	4 0	4 0	3 0	4 0	4 0	5 4	9 0	9 0	8 0
	41 Netokona ...	4 0	3 10	7 0	5 8	4 2	...	5 0	5 0	8 0	3 8	3 8	6 0	10 0	9 8	8 0
	PARADIPUR.															
CHITTAGONG.	42 Sadar ...	4 3	4 0	7 0	4 8	4 0	8 0	4 0	3 4	5 0	4 0	3 8	5 8	9 10	10 0	8 0
	43 Rajbari ...	4 0	4 3	8 0	4 8	4 9	8 12	3 7	3 7	8 10	3 3	3 0	4 12	10 0	10 0	8 0
	BAKANGANG.															
	44 Barisal ...	4 0	3 14	8 0	4 4	4 0	8 6	5 4	5 4	8 0	3 4	3 4	5 8	9 4	9 4	9 2
	45 Pirojpur ...	4 0	3 11	8 0	4 2	3 12	...	4 8	4 8	...	(a)	(a)	6 0	8 0	7 0	8 0
	TIPPERA.															
	46 Comilla ...	3 8	3 8	7 10	4 5	4 9	7 14	4 8	4 8	5 4	3 0	3 0	4 10	8 14	10 0	8 8
	47 Chandpur ...	3 10	3 10	8 11	4 4	4 7	8 4	3 12	5 2	5 5	3 6	3 12	7 2	9 8	10 0	9 1
	NOAKHALI.															
	48 Kalliana Hat ...	4 8	3 8	7 0	5 4	5 4	8 0	4 4	4 4	8 0	3 8	4 0	8 0	9 0	9 0	9 0
CHITTAGONG.	49 Feni Hat ...	3 4	3 4	7 8	5 0	5 8	9 0	6 8	6 8	8 0	(p)	(n)	...	8 0	8 0	9 2
	CHITTAGONG.															
	50 Sadar ...	5 0	4 8	8 0	6 8	5 0	9 0	3 8	4 0	6 0	3 0	3 8	5 8	9 0	9 0	10 0
CHITTAGONG.	51 Cox's Bazar ...	4 4	4 8	8 8	(n)	(n)	...	4 0	4 0	4 8	3 4	3 4	4 8	9 0	9 0	8 0
	52 Chittagong Hill Tracts—Rangamati.	8 0	4 8	8 0	7 0	6 0	10 0	3 8	3 8	4 0	2 8	2 8	4 0	8 0	8 0	9 0

\* Karkatch.

(a) Not available.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA ;  
The 16th October 1919.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Olroular and Eastern Canals for the week ending Saturday, the 27th September 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 27TH SEPTEMBER 1919.			WEEK ENDING SATURDAY, THE 26TH SEPTEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	465	40,170	634	955	128,562	2,160
Jute ...	183	60,388°	644	172	62,560†	797
Firewood ...	89	47,500	729	133	44,475	730
Other articles ...	891	207,819	2,222	897	165,059	1,962
Total ...	1,628	355,877	4,229	2,157	400,656	5,649
Empty boats and rafts ...	728	...	1,506	575	...	1,296
GRAND TOTAL ...	2,356	355,877	5,735	2,732	400,656	6,945

° Weight by canal measurement ... Mds. 68,150  
 † Ditto ditto ... 67,676

CALCUTTA,

The 20th October 1919.

G. J. ST. C. SEDGLEY,

Under-Secy. to the Govt. of Bengal.

## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Olroular and Eastern Canals for the week ending Saturday, the 4th October 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 4TH OCTOBER 1919.			WEEK ENDING SATURDAY, THE 5TH OCTOBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	367	39,092	553	1,199	154,392	2,585
Jute ...	177	56,267°	619	170	62,351†	784
Firewood ...	57	51,675	882	223	98,725	1,536
Other articles ...	803	158,426	1,763	966	222,150	2,868
Total ...	1,404	305,460	2,767	2,558	537,618	7,218
Empty boats and rafts ...	647	...	1,263	927	...	1,481
GRAND TOTAL ...	2,051°	305,460	5,030	3,485	537,618	8,699

° Weight by canal measurement ... Mds. 68,676  
 † Ditto ditto ... 69,576

CALCUTTA,

The 20th October 1919.

G. J. ST. C. SEDGLEY,

Under-Secy. to the Govt. of Bengal.



## IRRIGATION DEPARTMENT, BENGAL.

**Abstract Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of August 1919, as compared with the corresponding month of the previous year.**

Canals.	1919-20.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	6,610	36,503	...	6,944	3,109	19,243
Hijili Tidal Canal ...	9,530	46,602	2	2,437	7,873	37,686
Total ...	16,140	83,105	2	9,381	10,982	56,929
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	29,628	179,698	1,050	7,010	18,135	117,431
Tolly's Nala ...	13,720	84,673	19,700	64,700	5,321	29,165
Madaripur Bheel ...	128,583	522,505	202	1,047	34,368	1,20,009
Total ...	171,931	786,776	20,952	72,757	57,764	2,66,605
Magrahat Channels...	7,268	29,370	A.	...	2,387	9,683
Orissa Coast Canal ...	3,166	20,861	...	2,475	1,005	5,762
Nadia Rivers ...	8,726	19,138	96,440	389,693	1,499	4,365
GRAND TOTAL ...	191,091	856,145	117,392	464,925	62,655	2,86,415

Canals.	1918-19.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	10,516	43,063	350	3,900	5,984	25,926
Hijili Tidal Canal ...	7,126	31,243	...	1,202	8,645	29,303
Total ...	17,642	74,306	350	5,102	14,629	55,229
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	37,845	206,315	1,355	12,473	24,338	1,25,337
Tolly's Nala ...	19,034	82,114	9,870	89,816	7,256	27,917
Madaripur Bheel ...	172,753	679,992	100	699	36,786	1,49,221
Total ...	229,632	968,421	11,325	52,988	68,380	3,02,475
Magrahat Channels...	6,146	18,853	...	...	2,637	10,053
Orissa Coast Canal ...	3,813	17,474	25	5,705	1,279	6,238
Nadia Rivers ...	12,277	25,014	128,598	287,935	2,241	8,008
GRAND TOTAL ...	251,868	1,089,762	139,948	346,628	74,537	3,26,774

CALCUTTA,  
The 21st October 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



IRRIGATION DEPARTMENT, BENGAL.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1919-20.

Area leased for irrigation up to end of August 1919.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.						RAINFALL, 1918-19.		RAINFALL, 1919-20.					
								Long-term leases.	Rhyts.	Kult.	Bhagurams.	Hob-weather.	Total.	Grand Total.	Inches.	Inches.	During month.	Up to end of month.	Inches.	During month.	Up to end of month.
S.-W. CIRCLE.	{	Midnapore	...	1,411	300	280	72,798	67,449	62,506	11,726	...	...	...	11,726	74,232	20-59	51-03	10-89	44-92		
		Panchkura	...	522	14	13	4,575	6,451	6,715	596	...	...	...	596	7,311	12-91	48-75	9-72	42-59		
		Tidal Reaches, Ranges I and II	...	...	...	...	...	...	...	...	...	...	...	...	28-47	64-71	10-79	47-31			
	Howrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
			Total Midnapore Canal	...	...	...	77,373	73,900	69,221	12,322†	...	...	...	12,322	81,543	...	...	...	...		
{	Burdwan and Hooghly.	Total of the corresponding period of last year.	...	...	...	...	...	...	70,916	4,879	...	...	...	4,879	75,795	...	...	...	...		
		Eden Canal	...	1,000	338	338	17,862	16,970	18,182	116	30	22	...	168	18,350	17-78	47-39	15-67	51-83		
		Total of the corresponding period of last year.	...	...	...	...	...	...	19,063	23	...	12	...	35	19,098	...	...	...	...		
			GRAND TOTAL	...	...	...	95,235	90,870	87,403	12,438	30	22	...	12,490	99,893	...	...	...	...		
		GRAND TOTAL OF THE CORRESPONDING PERIOD OF LAST YEAR.	...	...	...	...	...	89,979	4,902	...	12	...	4,914	94,893	...	...	...	...	...		

\* Of which 24 acres are single watering.

† Of which 65 acres are single watering.

CALCUTTA,  
The 21st October 1919

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur.  
Boalia for the week ending the 11th October 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea- level according to P. W. D. datum.(a)	Height of surface above mean sea- level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
5th October	8 A.M.	Zero of gauge is at mean sea level.	50.70	49.16	B. M. on College step corrected, 64.93.
6th "	8 "		50.60	48.91	
7th "	8 "		50.40	48.51	
8th "	8 "		50.25	48.31	
9th "	8 "		50.35	48.11	
10th "	8 "		50.55	47.81	
11th "	8 "		50.90	47.41	

(a) P. W. D. datum 0.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	...	Highest water-level	58.52 on 30th August 1918	61.71
Ditto	...	Lowest	41.70 on 21st April 1918	30.81
Record	...	Highest	69.25 on 26th August 1879	64.44
Do.	...	Ditto	69.08 on 9th September 1886	64.27
Do.	...	Ditto	68.90 on 25th August 1906	63.47
Do.	...	Ditto	68.21 on 26th August 1890	63.40
Do.	...	Lowest	37.63 on 25th April 1884	32.82
Do.	...	Ditto	38.13 on 14th—15th April 1883	33.32
Do.	...	Ditto	39.02 on 21st—22nd April 1897	34.21
Do.	...	Ditto	39.28 on 6th—7th May 1908	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,  
The 11th October 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and  
Brahmaputra for the week ending 11th October 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea- level on same date last year.	Remarks.
1919.					
5th October...	7 A.M.	18.7	18.7	17.8	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passen- ger ghât and Chandpur ghât. Its reduced level is 22.41.
6th "	7 "	18.6	18.6	17.5	
7th "	7 "	18.6	18.6	17.2	
8th "	7 "	18.5	18.5	17.0	
9th "	7 "	18.4	18.4	16.7	
10th "	7 "	18.6	18.6	16.4	
11th "	7 "	19.0	19.0	16.2	

The previous year	...	Highest water-level	...	26.2 on 1st September 1918.
Ditto	...	Lowest	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	24.66 on 31st July 1900
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 18th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	8.16 on 9th to 11th March 1886.
Do.	...	Ditto	...	8.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,  
The 13th October 1919. for Subdivisional Officer, P. W. D., Faridpur.

R. K. GHOSE,



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 4th October 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
28th Sept.	64.48	...	...	...	...	64.4	
29th "	64.2	...	...	...	...	64.2	
30th "	64.0	...	...	...	...	64.0	
1st Oct.	63.9	...	...	...	...	63.8	
2nd "	63.7	...	...	...	...	63.6	
3rd "	63.5	...	...	...	...	63.4	
4th "	63.3	...	...	...	...	63.3	

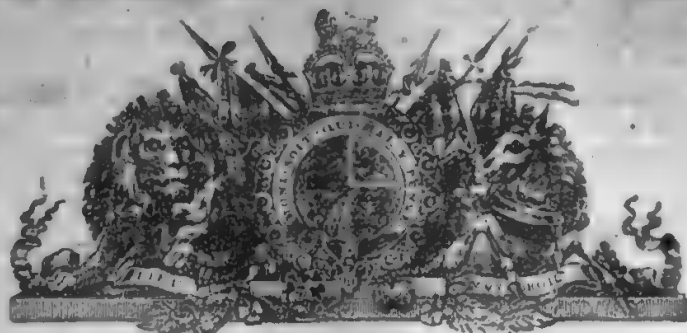
*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	...	67.86	
10th August	1910	...	...	...	...	69.86	
1st "	1911	...	...	...	...	68.46	
13th "	1912	...	...	...	...	67.16	
31st "	1915	...	...	...	...	69.7	
18th "	1916	...	...	...	...	68.1	
12th "	1917	...	...	...	...	67.1	
31st "	1918	...	...	...	...	69.12	
23rd February	1907	...	...	...	...	51.06	Taken at low tide.
13th "	1908	...	...	...	...	51.06	
12th March	1912	...	...	...	...	51.06	
6th "	1914	...	...	...	...	50.80	
22nd February	1915	...	...	...	...	50.30	
15th "	1916	...	...	...	...	50.60	
8rd March	1917	...	...	...	...	51.0	
21st February	1918	...	...	...	...	51.40	

DACCA,  
The 13th October 1919.

W. J. KERR,  
Executive Engr., Dacca Division.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 29, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 18TH OCTOBER 1919.

THE rainfall during the week was insufficient, but the agricultural prospects are favourable. Twenty-four relief works were open during the week. The number of persons relieved on works was 4,319. The number of persons in receipt of special relief was 4,254, viz., 3,683 on paddy-husking advances, 555 weavers and 16 better class poor. The distribution of gratuitous relief has been closed. The grand total of persons relieved was 8,573. The decrease in the number of persons relieved on works was due to the closure of forty-nine works during the week. The charitable societies relieved 700 persons by daily doles. During the week four cases of theft of paddy were reported. Public health is generally good. The outbreak of malaria and influenza is reported from certain localities. Cloth is being distributed to the destitutes. The relief measures are adequate. The price of common rice varies from 5½ to 5¾ seers in the rupee. Burma rice is being sold.

M. C. MCALPIN,

Secy. to the Govt. of Bengal.

DARJEELING, the 23rd October 1919.



# RESOLUTION ON THE SANITARY AND VACCINATION REPORTS, BENGAL.

## GOVERNMENT OF BENGAL.

### MUNICIPAL DEPARTMENT.

#### Sanitation Branch.

CALCUTTA, THE 27TH OCTOBER 1919.

### RESOLUTION—No. 1029San.

#### READ—

The reports of the Sanitary Commissioner, the Sanitary Board and the Sanitary Engineer, Bengal, for the year 1918.

#### READ ALSO—

The annual statistical returns and short notes on vaccination in Bengal for the year 1918-19.

**General results.**—The outstanding feature of the year under review was the widespread mortality caused by the severe epidemic of influenza which swept in two distinct waves over the Presidency, and left behind a disastrous aftermath of minor ailments and impaired national vitality. Appearing first in a mild form in the summer months, it spread rapidly over the province, subsided and seemed to have disappeared, and then broke out again in an infinitely more virulent and dangerous form in the autumn. The mortality from influenza is estimated at 350,000 to 400,000 deaths.

2. **Birth-rate.**—The provincial birth-rate which rose from 31·89 per mille in 1916 to 35·91 in 1917 fell to 32·9 per mille in the year under review; the actual decrease in births, in which all districts except Bakarganj, Khulna, Tippera and Bankura shared, was 138,738. The decline was common to all the provinces of India except Assam, as will appear from the statement in the margin and is ascribed to the general unhealthiness of the year coupled with unsatisfactory economic conditions.

3. **Death-rate.**—The provincial death-rate for 1918 was 38·1 per mille, as compared with 26·2 of the preceding year and 29·5 the average of the previous quinquennium, the actual mortality being 539,822 more than in 1917. In 1917, the highest death-rate occurred in the district of Darjeeling (38·6 per mille), but in the year under review Murshidabad returned the highest rate (58·3), while in four other districts (Nadia, Darjeeling, Burdwan and Jalpaiguri) the rate was over 50 per mille. Moreover, in every other district the mortality was greater than in the previous year. Among the towns of Bengal, Ramjibanpur in Midnapore returned the enormous rate of 69·1 per mille, while Kurseong and eight other towns earned the unenviable notoriety of a mortality of over 44 per mille. Though there was a slight rise in the mortality under practically every head, e.g., cholera, small-pox, respiratory diseases, dysentery and diarrhoea, the enormously augmented death roll was due largely to malaria of a severe type, but more particularly to the appalling ravages of influenza. The increase over the whole province, large as it is, nevertheless compares favourably with the increase in other provinces, as will be seen from the marginal statement.

Birth-rate.			Birth-rate.		
Province.	1917.	1918.	Province.	1917.	1918.
Bihar and Orissa	40·4	37·5	United Provinces	46·0	39·8
Bengal	35·9	32·9	Punjab	45·3	39·6
Central Provinces	48·1	43·2	Assam	31·3	34·9
Madras	32·3	28·8	North West Frontier Province	32·1	30·5
Burma	36·2	33·0			
Bombay	35·7	31·6			

Death-rate.			Death-rate.		
Province.	1917.	1918.	Province.	1917.	1918.
Bihar & Orissa	35·2	56·7	United Provinces	37·9	82·3
Bengal	26·2	38·1	Punjab	37·9	81·0
Central Provinces	36·0	102·6	Assam	27·0	46·1
Madras	26·2	43·0	North West Frontier Province	29·9	70·3
Burma	25·3	39·5			
Bombay	40·7	88·0			



4. **Infant mortality.**—Compared with the previous year, infant mortality was higher everywhere, being over 20 per cent. of the births in 22 districts and below 20 in 5 districts, whereas in the previous year the higher rate was reached in only 13 districts and the lower rate returned from 14. The highest rate (30·7) was returned by Burdwan, which was closely followed by Birbhum with 30·1, Nadia with 29·6 and Murshidabad with 28·3. Calcutta, which returned the highest ratio last year (23·92), comes next with 28·1. The problem is one of considerable complexity. In many places good cow's milk is not easily procurable, mothers themselves are ill-nourished and trained midwives are rare. Poverty and ignorance are responsible for a great deal of the enormous waste of infant life, and social and economic conditions hamper the introduction of remedial measures. A representative committee is now considering what steps should be taken to promote child welfare and reduce infantile mortality, and it is hoped that its deliberations will facilitate a solution of the problem.

5. **Vital statistics.**—The Sanitary Commissioner remarks that the generally lower birth-rate obtaining in towns when compared with the adjoining rural areas is largely due to defective registration. Although many municipalities have introduced a system of rewards to informers and are enforcing the penal clauses of the Compulsory Registration Act with greater strictness, the attention paid to registration of vital occurrences is still inadequate. Some improvement is, however, noticeable. The proportion of omissions brought to light as a result of the usual verification by inspectors and sub-inspectors was 2·9 per cent. of births as against 3·3 last year, and 2·2 of deaths as against 2·3. It is notorious that, owing to the ignorance of the reporting agency, confusion as to the causes of death occurs to a large extent, thus vitiating the statistics of a particular disease.

An improvement of the system of registration is a matter of considerable importance from the point of view of sanitary administration, and though various attempts have been made to ensure correct registration the result is far from satisfactory. Investigation has shown that in all probability the reported birth and death-rates are from 10 to 15 per mille below the actual figures. At present there are three agencies in Bengal for the registration of vital occurrences. Ordinarily in rural areas the chaukidar reports to the police, who compile the returns of births and deaths, though in certain areas this work has been transferred to the chaukidari panchayets. In municipalities however, Act IV of 1873 imposes an obligation upon parents or near relatives to register births and deaths. Some idea of the difficulty of improving the registration of vital occurrences may be gained from a history of the changes of agency tried in municipalities in the last 30 years. In 1886 the work of registration was transferred from the police to the municipal authorities. So far from any improvement being effected, it was found necessary in 1892 again to lay the responsibility upon the town police. The results were still unsatisfactory, and in 1913 it was decided that the work should be once more transferred to the municipal authorities. The solution of the difficulty is, in the opinion of the Sanitary Commissioner, a grave mistake. The local authorities have all assumed that this work should be made over to their health departments, and Dr. Bentley points out very forcibly that "departments whose efficiency can in the end be judged only by mortality statistics are virtually made the judges of their own work. This is to put a premium upon neglect and inaccuracy. As has already been pointed out, low death-rates can be obtained by neglect to record deaths or by manipulation of the returns far more easily than by efficient sanitary administration. And several instances have occurred recently in which municipalities have attempted to justify insanitation and neglect by pointing to their low or falling death-rates as proof of the excellence of their sanitary administration, when all the time the low figures were merely the result of omissions in their register of deaths. Unless steps are taken to put matters on a proper footing local authorities, who already keenly resent criticism and interference of any kind, will defend themselves in this way with increasing frequency in the future and public health will suffer as a result. It is only necessary to glance at the birth and death-rates of towns in Bengal that are published every year in the sanitary report of the province in order to realize



the hopeless inaccuracy of these figures, which, in the majority of cases, are probably less than half what they should be."

The whole question was considered at the last Commissioners' conference which recommended "that the recording of births and deaths should be retransferred from the municipalities to an agency controlled by Government, and that Act IV of 1873 should be extended gradually in selected rural areas." These recommendations are now under the consideration of Government.

6. **Cholera.**—The mortality from cholera, which was the lowest on record in 1917, again increased, the deaths during 1918 amounting to 82,379, as against 45,021 of the preceding year and an average of 82,932 during the previous quinquennium. No district was entirely free from its ravages and out of 490 registering circles only 6 towns and 9 rural areas escaped, against 10 and 7 in 1917. The incidence of the disease was highest in Noakhali where the death-rate rose from 7 in 1917 to 50 during the year under review, while, as before, the lowest rate was recorded in Darjeeling. The banks of rivers, tanks, khals which are the principal sources of water-supply, both for drinking and domestic purposes, are always subject to gross faecal pollution, and cholera consequently tends to become epidemic in a locality as soon as the infection has been introduced, unless steps are taken to stop the use of polluted water supplies. The Mines Board of Health at Asansol has proved conclusively that no very elaborate organization is required to control cholera. Early notification of its outbreak, the immediate investigation of the source of infection, and the draining or closing of a polluted water-supply require no very elaborate or costly organization, and the Governor in Council sees no reason why the creation of an adequate public health staff should not, within a very few years, render possible the complete control of cholera as a dangerous epidemic disease.

7. **Small-pox.**—The mortality, which amounted to 8,576, shows a slight increase over that of 1917, when 7,010 deaths were reported from this cause, but it was considerably below the average for the preceding quinquennium. The highest district death-rate was returned by Pabna, viz., 1.6 per mille.

8. **Vaccination.**—The number of operations performed was 1,784,817, of which 1,295,331 were primary and 489,486 re-vaccination cases, giving an increase of 170,216 in the total number of operations, but a decrease of 62,009 in primary operations as compared with last year. The increase in the total operations was due to the prevalence of small-pox in epidemic form in certain districts as well as to the introduction of free vaccination in Rangpur, Bogra and Bakarganj. The number of persons vaccinated was 1,773,715, or 167,096 more than in 1917-18. Free vaccination was in force in the districts of Jalpaiguri and 24-Parganas and was introduced in the Burdwan district at the cost of the district board with effect from the 12th December 1918.

9. **Plague.**—The total number of deaths was 289. As usual the disease was confined almost entirely to Calcutta (where 210 deaths occurred) and its suburbs. The Presidency remained entirely free of plague during September and November.

10. **Fever.**—The most lamentable feature of the sanitary history of the year was the appalling increase in the mortality from febrile diseases, due mainly to the epidemic of influenza. The total number of deaths amounted to 1,357,906 as compared with 882,768 in 1917 and 976,679, the quinquennial average. Of this total the Sanitary Commissioner calculates that 365,158 deaths must have been due to influenza. The first indication of this disease in Bengal was received in June and it was recognised almost simultaneously in Calcutta and in a number of other towns in the 24-Parganas. It spread rapidly along railway and steamer routes, employées on the docks, on the railways and in the postal services and traders being the earliest victims. Calcutta appears to have been the main disseminating centre and the extraordinary rapidity of its spread was undoubtedly due to the relatively excellent railway communications of the province. The first epidemic outbreak, lasting about six weeks, was marked by the absence of complications and the fact that it was chiefly confined to towns. The second epidemic outbreak occurred about the middle of September. It spread more slowly than the first, but was infinitely more serious, being characterized by the great frequency of dangerous respiratory and other complications, which



resulted in an appalling mortality. Towns and villages suffered alike, but on the whole the mortality was greater in rural than in urban areas. The Burdwan Division appears to have suffered most severely, the Chittagong Division coming next, followed by the Presidency Division. The Rajshahi Division, with the exception of Darjeeling and Jalpaiguri, and the Dacca Division appear to have escaped fairly lightly in comparison. The incidence of the disease also varied greatly among different classes of the population. In general, females suffered more severely than males, while children under ten and old people suffered less severely than young adults. Owing to the sudden onset and rapid spread of the epidemic, little could be done to check its ravages, and both the medical and the sanitary organizations were powerless to devise measures adequate to the occasion. Moreover, the lack of knowledge of any real specific against the disease rendered efficient general treatment impossible.

The increase in mortality figures under the head "fever" was shared by both urban and rural areas. In some parts of Nadia and Murshidabad, the mortality was over 77 per mille. Taken by districts, Murshidabad headed the list with a return of 48·9, followed by Nadia, Birbhum, Jalpaiguri, Burdwan, Darjeeling and Bankura, in all of which the mortality was over 40 per mille. In only three districts was the death-rate below 20 per mille. It is interesting to note that Calcutta returned the smallest rate from this cause, namely 6·7 per mille, although this was higher than the figures of the two previous years (3·3 and 3·2 per mille, respectively).

**11. Anti-malarial Measures.**—Deductions regarding the effects of the anti-malarial schemes are largely vitiated by the abnormal returns, for which the influenza epidemic was responsible. The Meenglas scheme provides for the subterranean drainage of a number of bill streams which were formerly the prolific breeding places of mosquitoes; the excessive rainfall of 1918 unfortunately did considerable damage to portions of the under-drains. The Sanitary Commissioner, however, reports that the observations on the number of mosquitoes caught in special traps in various areas show that there was a very decided diminution of these insects in the area of control, whereas there was an increase in their number in the untreated control area. The sickness rate from malaria in the sphere of operations is reported to have fallen from 260 per 1,000 in 1917 to 115 per 1,000 in 1918; but as a similar though not quite so great a reduction was noted among the people living outside the area, it is not safe to conclude that the improvement was due to the anti-malarial scheme. The Singaran scheme in Burdwan was only completed in the first week of September 1918, when the rainy season was nearly at an end, the delay being mainly due to the engineering difficulty occasioned by the lack of the necessary material owing to the war. It was possible, however, to gauge to some extent the effect of flushing the weir on two occasions in September, and the results were satisfactory. As in the case of Meenglas, observations on the "catch" of mosquitoes, both within the area of the scheme and in another control area outside, showed a distinct reduction in favour of the area operated upon, and a very interesting fact observed in this connection was the marked reduction in the "catch" of anopheles mosquitoes which followed each of the flushings of the river bed. Unfortunately the prevalence of influenza during the season vitiated any conclusion from sickness and mortality rates, and it will probably be necessary to wait for another two or three seasons before a definite judgment can be passed upon the scheme. The scheme for the flood and flush drainage of the urban area at Jangipur also did not give any conclusive results. The statements of the residents in the locality are, however, of some interest, and the Sanitary Commissioner quotes the opinion of a local resident that the health of the town during 1918 was good, when all the surrounding villages were subject to wide ravages of influenza and malaria. The scheme is now being extended. The works in connection with the Banka Valley scheme were only completed in time to allow of operations being commenced in August, and it is, therefore, not possible to express any opinion on the scheme at present, though it is said to have already proved its value from an agricultural standpoint.

It is encouraging to note that several localities have undertaken special measures for the prevention of malaria on lines laid down by the Sanitary



Commissioner. Excellent results as regards reduction of malaria have been reported to have followed upon the construction of the drainage scheme at Tangail, which is based largely upon the "flood and flush" principles. Detailed malarial surveys were carried out in Jessore, Birnagar, a portion of Howrah, a portion of South Suburban and North Barrackpore municipalities and in 266 villages. As a part of the campaign against malaria may be mentioned the three large schemes of sanitary drainage, viz., the Arool Bheel, the Jabuna and the Nawi and Sunthi schemes, which have been undertaken with funds contributed by district boards and Government, and the Governor in Council takes this opportunity of expressing his appreciation of the co-operation he has received in this matter from the non-official chairmen of the district boards of the 24-Parganas and Jessore and from the district board of Nadia.

A considerable quantity of quinine was distributed during the year. Special grants for this purpose were made as in previous years to certain district boards and municipalities for the purchase of quinine for free distribution to the poorer classes through the agency of charitable dispensaries and peripatetic doctors. At Birnagar, a poor municipality, a special scheme of quinine treatment was carried out in the year, a sum of Rs. 2,000 having been placed at the disposal of the municipality for this purpose, and gratifying results are said to have been obtained.

Several causes conduced to a serious decrease in the amount of quinine issued by the Juvenile Jail. In the first place, the prohibition of export from Java led to a rise in the market price of quinine, and it was found that profiteers were purchasing Government quinine in large quantities with the object of reselling it at a large profit. It was, therefore, decided to raise the retail price of the tubes of quinine tablets and to limit the amount sold to any single person. Again serious thefts and defalcations were discovered which in previous years had served to swell the yearly issues from the Juvenile Jail. A third serious cause of the falling off in the issue of Government quinine was the large trade in spurious quinine tablets. These tablets, while containing only about one-fifth of a grain of quinine, are so manufactured as to appear identical with the Government tablets which contain four grains of the drug. Investigation by the police brought to light the fact that numerous factories for the manufacture of these tablets had been established both in Calcutta and in various parts of the mufassal.

**12. Miscellaneous enquiries.**—In the resolution reviewing the report of 1917 attention was drawn to the fact that an examination of prisoners in fourteen jails of the Presidency showed a high degree of hookworm infestation in the districts concerned. Further enquiries have merely confirmed this view and revealed the fact that the disease is as widespread as it is unsuspected. In September 1918 His Excellency the Governor addressed a letter to the President of the Sanitary Board pointing out—

- (1) that a very large percentage of the population of Bengal, which may be as much as 80, representing a total of approximately 36 million persons, is infected with hookworm;
- (2) that even in cases of mild infection it is responsible for ill effects, such as lowered vitality, anæmia, inertia, etc.;
- (3) that the disease can be cured cheaply and effectively; but that,
- (4) it can be prevented (and consequently extirpated) only by ridding an infected soil of infection; and
- (5) that this can be brought about only by means of a wide diffusion of knowledge as to the nature and causes of the disease, followed by a revolutionary change in the sanitary habits of the people.

Towards the end of the year a conference of representatives of district boards, of the tea, jute and coal industries and other interests was called together at Government House to devise measures against the disease, when His Excellency the Governor delivered an address, after which certain draft resolutions were adopted, recommending the appointment of three Deputy Sanitary Commissioners with the necessary staff for the introduction and supervision of hookworm operations in the coal area, tea gardens and the mills and works near Calcutta, and railways and certain rural areas. These recommendations have been given effect to in the current year.



The report of the committee appointed to consider the sanitary organization of the port of Calcutta, with special reference to the prevention of yellow fever, was received during the year, together with a draft bill. The bill has since been revised and submitted to the Government of India for sanction.

**13. Sanitary Board.**—The Sanitary Board continued its useful function of advising Government on sanitary projects of waterworks and drainage. The board held eight meetings during the year.

**14. Sanitary improvement.**—The total expenditure incurred on sanitary works executed during the financial year 1917-18 by Government, municipalities, district boards and private individuals is returned at Rs. 14,25,040, or nearly one lakh less than in the previous year. The decrease is due to the construction of fewer drains during the year. As usual sanitary works, such as the cleansing of jungles, filling up ditches, improving silted-up khals and local drainage, etc., were carried out in the villages through the agency of district and local boards and union committees. The Sanitary Commissioner observes that works of this kind, though often useful, are frequently ill-directed and cannot be compared to sound measures such as the reservation of tanks for drinking and bathing purposes, house to house vaccination, closure or disinfection of infected water-supplies, which have been adopted by the Asansol Mines Board of Health against the spread of infectious disease. The Governor in Council recognizes that the union committees have executed several minor works of sound utility, but it must at the same time be remembered that sanitation has long since become a science, and he is convinced that the funds now spent on sanitary works could, under expert guidance, be used to better advantage. In his view, the root of the matter is organization, and while the introduction into the rural life of Bengal of a trained sanitary staff, which must be cheap and therefore of no very high calibre, and moreover with quite insufficient funds at its command, will not accomplish miracles and will be frequently attacked as an extravagant luxury, the Governor in Council is satisfied that it is this way that improvement lies, and that organization, even though at first it may seem costly and infructuous, will a decade hence have transformed the administration of public health in this Presidency. At the present time an increasing interest in sanitation is displayed on all sides. Lectures and demonstrations on sanitary subjects are well attended, some local improvement associations have been organised, and certain anti-malarial societies, which in the first place provide medical attendance for the members and secondly undertake local sanitary improvements, have been established and promise to do excellent work.

**15. Sanitary Engineering.**—The total capital expenditure on sanitary engineering works during the calendar year 1918 was Rs. 3,77,984 as against Rs. 3,32,108 in the previous year. The greater part of the expenditure was, as usual, devoted to water-supply.

The Uttarpara water-works were completed and little remains to be done to the new clear water reservoir at Mymensingh and the Satkhira water-works. The progress of the Nator water-works was interfered with by early rains, but it is hoped that it will be opened in April next. The Rajbari water-works have been completed. The first portion of the extension schemes for Dacca and Mymensingh water-works was almost finished, but the lack of funds held up the execution of the Howrah water-works. Repairs to the existing filters and clear water reservoir at Berhampore were taken in hand, but had to be stopped during the rains. Detailed water-supply schemes were prepared for the towns of Midnapore and Pirojpur and sketch projects were prepared for ten other towns.

The construction of the Kurseong sewerage scheme was commenced and the works for the improvement of the channel from Bhagirathi to the Bistupur Bheel were completed. A few minor drainage works were completed at Howrah and elsewhere.

**16. Public Health organization.**—The Governor in Council, as already stated, is satisfied that the great need of the present moment is a better public health organization, and it was therefore decided that each district board should be required to appoint a qualified medical officer of health with effect from 1st April 1920. District boards were consulted throughout the



Presidency upon this question. There were differences of opinion, as was only to be expected on a large question of reorganization such as this, but on the whole there was a gratifying volume of opinion in favour of the principle of creating a decentralized organization under the district boards to deal with sanitary matters. Steps have been taken to train a sufficient number of qualified officers to fill these posts.

17. **Staff.**—Dr. C. A. Bentley was in charge of the office of the Sanitary Commissioner for the whole of the year under review and Mr. G. B. Williams held the post of Sanitary Engineer, except for the periods from the 2nd to the 29th of January and from the 2nd to the 23rd of December, during which he was absent on privilege leave. The Governor in Council desires to place on record the excellent work done by both these officers. His thanks are also due to the Sanitary Board and their President, the Hon'ble Mr. C. J. Stevenson-Moore, c.v.o., for their helpful advice and assistance in examining sanitary schemes and preparing programmes of sanitary work. .

By order of the Governor in Council, .

S. W. GOODE,

*Offg. Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE ANNUAL REPORT OF THE BENGAL  
SMOKE-NUISANCES COMMISSION FOR THE YEAR 1918-19.**

**GOVERNMENT OF BENGAL.**

**MARINE DEPARTMENT.**

**CALCUTTA, THE 28TH OCTOBER 1919.**

**RESOLUTION—No. 3312 Marine.**

**READ—**

The thirteenth annual report of the Smoke-Nuisances Commission relating to the year 1918-19.

1. During the year the Commission held twelve meetings for the transaction of their business.

2. The number of observations of smoke emission taken was 9,221 against 10,044 in the previous year. The number of factories visited for the purpose of inspection of power plant, instruction of firemen and testing of fuel appliances was 3,663 against 5,375 in 1917-18.

3. The average of the observed emission of objectionable smoke in terms of scale 6 was 1.27 minutes in the hour against 1.29 minutes in the previous year. The reduction may appear small in figures, but it shows a continuous improvement on the best results of previous years, although the continuance of war conditions made it incumbent on the Commission to exercise great forbearance in enforcing the provisions of the Bengal Smoke-Nuisances Act.

4. Plans for 47 installations were examined and approved, alterations being made where considered necessary. The remodelled plants were always found to be an improvement on the old ones and were appreciated by the owners.

5. The number of complaints received from the public was 48 against 53 in the previous year, and the number of reports made to owners of furnaces for departmental action was 954.

6. Statutory warnings were served and prosecutions undertaken in 23 and 18 cases, respectively, the corresponding figures for the previous year being 60 and 36. The number of prosecutions during the year is the lowest on record. This is very creditable to the Commission, and may be attributed, at least in part, to the larger employment of trained firemen and the adoption of improved installations.

7. Notwithstanding war conditions and the difficulty of obtaining material, a fair number of electric motor and gas appliances was installed during the year with a resulting diminution in the amount of smoke emitted.

8. The work of the Commission since its inception in 1906 has been a record of steady and sustained progress. As the report states, the Commission is primarily advisory, not repressive; it exists for the public good and the benefit of owners. That this policy is definitely pursued, is clear from the many appreciative acknowledgments received from owners and the general public. The thanks of the Governor in Council are due to the members of the Commission and also to Mr. Robson, the Chief Inspector, and to the other inspecting officers for the success which continues to attend their efforts.

**ORDER—**Ordered that a copy of the resolution be forwarded to the Government of India, Department of Commerce and Industry, the President of the Smoke Nuisances Commission, the Commissioners of the Presidency and Burdwan Divisions, the Commissioner of Police, Calcutta, the Chairman, Corporation of Calcutta, the Vice-Chairman of the Commissioners for the Port of Calcutta, the Secretary, Bengal Chamber of Commerce, Master, Calcutta Trades Association, the Honorary Secretary, Bengal National Chamber of Commerce, the Chairman of the City Improvement Trust, Calcutta, and the Municipal Department of this Government.

Ordered also that the resolution be published in the *Calcutta Gazette*.

By order of the Governor in Council,

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*



### MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR SEPTEMBER 1919.

**I. Character of the Season.**—During the month the rainfall was above normal in 16 districts, elsewhere it approached the average, excepting in the 24-Parganas, Hooghly, Howrah and Midnapore. The usual rainfall statement is appended.

**II. Progress of Agricultural Operations.**—Good rainfall, especially in the latter part of September, throughout North and East Bengal, facilitated the transplanting of winter paddy. The cyclone, which passed over the Dacca Division and Khulna district, did comparatively little damage to standing crops. In fact the heavy rain which accompanied the cyclone did great good on the whole to the transplanted paddy. Weeding of winter paddy and steeping and washing of jute were almost complete. Very little of the *aus* crop remained to be reaped. Preparatory tillage for the next spring crops and their sowings commenced in some districts.

**III. State of Standing Crops.**—On the whole the conditions of winter paddy, sugarcane and other standing crops were satisfactory.

**IV. Prospects and Outturn.**—The present outlook of winter paddy is reported to be generally promising, but rain was needed at the end of the month for the higher rice lands in the districts of Burdwan, Bankura and Birbhum.

**V. Damage to Standing Crops.**—The damage done by the cyclone to the standing crops was comparatively small excepting in the case of deep-water paddy growing in water where a strong current was running. Sugarcane has suffered, though not so severely as might be expected.

**VI. Condition of Agricultural Stock.**—The cyclone caused considerable loss of livestock, especially in Khulna and Faridpur. Cattle-disease was prevalent in places in the districts of Darjeeling, Jalpaiguri, Rangpur, Malda, Mymensingh, Midnapore, Nadia and Tippera.

**VII. Failure of Pasturage and Fodder.**—The supply of fodder was sufficient throughout the province.

**VIII. Price of Food-grains.**—During the second fortnight of the month under review, the price of common rice for the province rose in three districts, fell in 16 and remained stationary in the rest. It varied from 4 seers per rupee in Jalpaiguri, Darjeeling and Rangpur to 7 seers in the Chittagong Hill Tracts.

**IX. Condition of Agricultural People.**—Distress continued to prevail in the Brahmanbaria subdivision of Tippera district. Relief measures continued. The conditions in Bankura are published separately.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

DACCA, the 25th October 1919.

Statement showing the normal and actual rainfall in each district during September 1919.

Division.	District.	Normal district rainfall for the month of September.	Actual district rainfall for the month of September 1919.	Variation from the normal.	Division.	District.	Normal district rainfall for the month of September.	Actual district rainfall for the month of September 1919.	Variation from the normal.
		Inches.	Inches.	Inches.			Inches.	Inches.	Inches.
Presidency	24-Parganas	9.89	5.62	- 4.26	Rajshahi— concd.	Rangpur	13.14	12.19	- 0.95
	Calcutta	9.38	2.58	- 7.20		Bogra	10.84	10.34	- 0.50
	Nadia	7.73	7.11	- 0.62		Pabna	8.19	9.77	+ 1.58
	Murshidabad	9.98	6.93	- 2.35		Malda	8.87	9.31	+ 0.34
	Jessore	8.66	9.16	+ 0.61	Dacca	Dacca	8.70	16.09	+ 7.39
Burdwan	Khulna	9.65	15.51	+ 5.86		Mymensingh	12.26	14.51	+ 2.25
	Burdwan	8.44	6.64	- 2.80		Faridpur	7.11	16.96	+ 8.85
	Birbhum	9.51	8.24	- 1.27		Bakarganj	11.68	16.54	+ 4.01
	Bankura	8.42	8.50	+ 0.08	Chittagong	Chittagong	12.52	20.47	+ 7.95
	Midnapore	9.16	4.22	- 4.94		Tippera	9.84	16.94	+ 6.10
Howrah	Hooghly	8.68	4.81	- 3.87		Noakhali	14.52	19.04	+ 4.52
	Howrah	8.68	4.10	- 4.58		Chittagong Hill Tracts	12.79	16.16	+ 3.36
Rajshahi	Rajshahi	9.74	8.46	- 1.28	Cooch Behar	Cooch Behar	20.89	21.25	+ 0.36
	Dinajpur	11.47	12.23	+ 0.76					
	Jalpaiguri	21.92	30.91	+ 8.99					
	Darjeeling	17.66	22.84	+ 5.18					



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 23rd October 1919.

**Summary.**—The week was rainless. Some rain now, especially in the western districts, would be highly beneficial to the winter paddy which is just coming into ears. Preparatory tillage for the spring crops continues. Harvesting of early winter paddy and sowing potatoes, oilseeds and pulses have commenced. The prospects of standing crops are generally satisfactory. The average price of common rice for the province has fallen by about 1.50 per cent. as compared with that of the previous week. One thousand two hundred and eighty persons received gratuitous relief in the Brahmanbaria subdivision of Tippera district. The conditions in Bankura are published separately.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	5 6 <sup>3</sup> / <sub>4</sub>	4 <sup>9</sup> / <sub>4</sub> 6 <sup>1</sup> / <sub>4</sub>	Harvesting, steeping and washing of jute are nearly finished. Harvesting of autumn paddy is finished. Fodder and water are sufficient.
	Diamond Harbour.	Nil	4 <sup>1</sup> / <sub>4</sub> 5 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub> 5 <sup>7</sup> / <sub>8</sub>	
	Barrackpore	Nil.	4 <sup>1</sup> / <sub>4</sub> 6	4 <sup>1</sup> / <sub>4</sub> 6	
	Barasat ...	Nil	4 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	
	Basirhat ...	(n)	(n)	5 6	
2	NADIA ...	Nil	5 6 <sup>1</sup> / <sub>4</sub>	5 6 <sup>3</sup> / <sub>4</sub>	Prospects of standing crops are fair. Rain is badly wanted for <i>aman</i> paddy. Washing of jute and sowing of <i>rabi</i> crops continue.
	Kushtia ...	(n)	(n)	4 <sup>1</sup> / <sub>4</sub> 6	
	Meherpur ...	Nil	6 <sup>1</sup> / <sub>4</sub> 5 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub> 5 <sup>1</sup> / <sub>8</sub>	
	Chuadanga ...	(n)	(n)	4 <sup>1</sup> / <sub>4</sub> 6	
	Ranaghat ...	Nil	4 <sup>1</sup> / <sub>4</sub> 6	4 <sup>1</sup> / <sub>4</sub> 6	
3	MURSHIDABAD	Nil	4 <sup>1</sup> / <sub>4</sub> †	4 <sup>1</sup> / <sub>4</sub> †	Rain is urgently wanted. Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops has commenced. Fodder is sufficient. No large import or export.
	Lalbagh ...	Nil	4 <sup>1</sup> / <sub>4</sub> †	5 6 <sup>1</sup> / <sub>4</sub>	
	Jangipur ...	(n)	(n)	5 <sup>1</sup> / <sub>4</sub> †	
	Kandi ...	Nil	5 <sup>1</sup> / <sub>4</sub> †	(n)	Standing crops are doing well. <i>Rabi</i> crops are being sown. Prospects of jute are fair and washing still continues. Fodder is sufficient.
4	JESSORE ...	Nil	5 6	5 4 <sup>1</sup> / <sub>4</sub>	
	Jhenidah ...	Nil	5	5	
	Magura ...	Nil	4 <sup>1</sup> / <sub>4</sub>	4	
	Narail ...	Nil	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub> 4 <sup>1</sup> / <sub>4</sub>	
	Bangaon ...	Nil	5 <sup>1</sup> / <sub>4</sub>	5	Harvesting of early <i>aman</i> is going on in Satkhira subdivision. Fodder and water are sufficient.
5	KHULNA ...	Nil	4 <sup>1</sup> / <sub>4</sub> 6	5 <sup>1</sup> / <sub>4</sub> 6	
	Satkhira ...	Nil	5 5 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	
	Bagerhat ...	Nil	4 <sup>1</sup> / <sub>4</sub> 5 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub> 5 <sup>1</sup> / <sub>4</sub>	Weather slightly cloudy. Prospects of winter paddy are excellent in Asansol, fair in Katwa, and bad in Sadar and Kalna subdivisions for want of rain in unirrigated area. Autumn paddy is being harvested, outturn is satisfactory. Stocks of rice in Asansol are insufficient.
6	BURDWAN ...	Nil	4 <sup>1</sup> / <sub>4</sub>	5	
	Asansol ...	Nil	4 <sup>1</sup> / <sub>4</sub>	4	
	Katwa ...	Nil	5 <sup>1</sup> / <sub>4</sub>	5	
	Kalna ...	Nil	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERs, PER MUPH.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
7	BIRBHUM ...	Inches Nil	5½	5½	Rain is badly wanted. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	Nil	5½	5½	
8	BANKURA ...	Nil	{ 5 6° }	{ 5 6° }	Rain is badly wanted for paddy on high lands. Export of rice and paddy is going on. Reaping of <i>aus</i> paddy still continues.
	Vishnupur...	Nil	5½	5½	
9	MIDNAPORE	0·05	{ 4½ 5½ <sup>†</sup> 6½ }	{ 5 5½ to 6½ }	Prospects of standing crops are fair, excepting in Ghatal and Contai subdivisions where crops are withering owing to drought. Lands for mustard, wheat, rape and linseed are being prepared.
	Ghatal ...	Nil	{ 5 5½ <sup>†</sup> 5½ }	{ 5 5½ <sup>†</sup> 5½ }	
	Tamluk ...	Nil	{ 5 5½ <sup>†</sup> 6½ }	{ 4½ <sup>†</sup> 5½ <sup>†</sup> 6½ }	
	Contai ..	0·02	{ 5 5½ <sup>†</sup> }	{ 5 5½ <sup>†</sup> }	
10	HOOGHLY ...	Nil	{ 4½ 5½ <sup>†</sup> to 6½ }	{ 4½ 5½ <sup>†</sup> to 6½ }	Effects of weather on the growth of the crops are unfavourable. Fodder is sufficient. Rain is urgently needed.
	Serampore ...	Nil	{ 4½ 6° }	{ 5½ 6° }	
	Arambagh ...	Nil	5½	5½	
11	HOWRAH ...	(n)	{ 4½ 6½ }	{ 4½ 6½ }	Weather dry. Lands are being ploughed for winter vegetables. Condition of winter paddy and sugarcane is fair. Rain is wanted. Fodder is sufficient.
	Ulubaria ..	Nil	{ 4½ 6° }	{ 4½ 6° }	
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	{ 4½ 5½ }	{ 4½ 5½ }	Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops has begun. Fodder and water are sufficient.
	Naogaon ...	Nil	{ 3½ 5½ }	{ 3½ 5½ }	
	Nator ...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
13	DINAJPUR ...	Nil	{ 4½ 6° }	4½	Weather seasonable. Prospects of standing crops are fair. Harvesting of jute and other <i>bhadoi</i> crops continues. Export of paddy and rice is going on. Fodder and water are sufficient.
	Thakurgaon	Nil	5	4½	
	Balurghat ...	Nil	4	4	
14	JALPAIGURI...	Nil	{ 4 5½ }	{ 4½ 6° }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	0·12	{ 4 6° }	{ 3½ 5° }	
15	DARJEELING	Nil	{ 4½ 5½ <sup>†</sup> }	{ 4½ 5½ <sup>†</sup> }	Potatoes and cardamom are being harvested. <i>Marua</i> and paddy are progressing. Stocks of food-grains excepting Burma rice are inadequate at Sadar subdivision. Fodder and water are sufficient. Cattle-disease is reported from some places.
	Kurseong ...	Nil	{ 5½ 5½ }	{ 4½ 5½ }	
	Siliguri ...	Nil	{ 4½ 6° }	{ 4½ 6° }	
	Kalimpong...	Nil	{ 4½ 5½ }	{ 4 5½ }	

° Burma rice.

† Coarse rice.

‡ *Aus* rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
16	RANGPUR ...	Nil	4½	4½	Weather seasonable. Steeping of jute is nearly finished. Lands are being prepared for spring crops. Sowing of potatoes has commenced at Nilphamari subdivision. Prospects of standing crops are good. Consignments of Burma rice for the Sadar subdivision have not yet been received. Stocks of food-grains, fodder and water are sufficient. Cattle-disease is reported from Gaibandha thana.
	Nilphamari	Nil	{ 4½ <sup>5</sup> / <sub>8</sub> 5½ <sup>5</sup> / <sub>8</sub> }	{ 4½ <sup>5</sup> / <sub>8</sub> 5½ <sup>5</sup> / <sub>8</sub> }	
	Kurigram ...	Nil	{ 4 5° }	{ 4 5° }	
	Gaibandha ...	Nil	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	{ 4½ 5½ <sup>5</sup> / <sub>8</sub> }	
17	BOGRA ...	Nil	{ 4½ 5½ <sup>5</sup> / <sub>8</sub> }	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	Harvesting of jute is nearing completion. Prospects are fair. Lands are being prepared for <i>rabi</i> crops.
18	PABNA ...	Nil	{ 5 5½ <sup>5</sup> / <sub>8</sub> }	{ 5 4½ <sup>5</sup> / <sub>8</sub> }	Prospects of standing crops are good. Condition of fodder is tolerable.
	Sirajganj ...	(n)	(n)	(n)	
19	MALDA ...	Nil	{ 5 6½ <sup>5</sup> / <sub>8</sub> }	{ 5 6° }	Lands are being prepared for <i>rabi</i> crops. Sowing of mustard continues. Fodder and water are sufficient.
20	COOCH BEHAR	0·80	7½	7½	Preparation of lands for tobacco and other <i>rabi</i> crops and washing of jute continue. Condition of standing crops is hopeful. Fodder is sufficient. Burma rice is not available.
21	DACCA ...	(n)	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	Weather seasonable and favourable for harvesting of paddy. Prospects of winter rice are fair. Cattle-disease is reported in some places.
	Manikganj ...	Nil	{ 4½ 5° }	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	
	Narayanganj	Nil	(n)	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	
	Munshiganj (a)	Nil	(n)	(n)	
22	MYMENSINGH	Nil	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	{ 3 5½ <sup>5</sup> / <sub>8</sub> }	Weather clear. Sowing of <i>rabi</i> crops continues. Harvesting and steeping of jute are almost finished. Prospects of crops are fair. Fodder and water are sufficient. Cattle-disease is reported from Islampur police-station in Jamalpur.
	Jamalpur ...	Nil	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	
	Tangail ...	Nil	{ 3½ <sup>5</sup> / <sub>8</sub> 5½ <sup>5</sup> / <sub>8</sub> }	{ (n)	
	Netrakona ...	Nil	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	{ 3½ 5½ <sup>5</sup> / <sub>8</sub> }	
	Kishorganj...	Nil	{ 3½ 5° }	{ 3½ 5° }	

(n) Not reported.

\* Burma rice.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 4 5½°	{ 4 5½°	Effects of weather on the growth of the crops are favourable. Harvesting of <i>digha</i> paddy has commenced in Madaripur subdivision. Prospects of standing crops are fair. Insufficiency of fodder still continues in Gopalganj subdivision.
	Goalundo ...	Nil	{ 4½° 5½°	{ 4½° 5½°	
	Madaripur ...	Nil	{ 4 5½°	{ 4 5½°	
	Gopalganj(a)	Nil	{ 4½° 5½°	{ 4½° 5½°	
24	BAKARGANJ (BARISAL).	Nil	{ 3½ 4½ 6°	{ 3½ 4½ 6°	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	{ 3½	{ 3½ 5½°	
	Patuakhali ...	Nil	{ 4 5½ 6°	{ 4 5½ 6°	
	Dakshin Shabazpur (Bhola).	Nil	{ 3½ 3½½	{ 3½ 3½½	
25	CHITTAGONG	0·02	{ 5½ 6°	{ 5½ 6½°	Rain is wanted. Cultivation of <i>rabi</i> crops has commenced. Prospects of standing crops are good. <i>Panya</i> salt is selling at 7½ and 9 seers per rupee both at Sadar and Cox's Bazar respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 5½ 6°	{ 5½ 6°	
26	TIPPERA (COMILLA).	Nil	{ 5 5½°	{ 5 5½°	Weather very hot. Prospects of standing crops are hopeful. Ploughing for and sowing of <i>rabi</i> crops are going on. Demand for controlled rice is very great. Price of rice is stationary. Cattle-disease is reported from Sadar subdivision. 1,280 persons received gratuitous relief in Brahmanbaria subdivision.
	Brahmanbaria.	Nil	{ 5½ 5½½°	{ 4½ 5½½°	
	Chandpur ...	Nil	{ 4½ 5½°	{ 4½ 5½°	
27	NOAKHALI ...	Nil	4½	4½	Fodder is sufficient. Paddy crops are being damaged in places by <i>ufra</i> .
	Feni ...	Nil	5	5	
28	CHITTAGONG HILL TRACTS.	0·31	{ 6 7½ 5°	{ 6 8½ 5°	Prospects of <i>aman</i> paddy are fair. Harvesting of <i>ghum</i> paddy continues. Out-turn is fair. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
 ° Burma rice.      † Local rice.      ‡ Aus rice.

J. O. ROY,  
 for Director of Agriculture, Bengal.

DACCA, the 27th October 1919.



*List of prices of articles of food in Calcutta for the week ending  
Saturday, the 25th October 1919.*

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER GUR.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 4 0	9 8 0	.....	.....
" medium	9 10 0	9 14 0	.....	.....
Patnai, coarse	8 8 0	9 4 0	0 3 6	0 3 9
" medium	9 6 0	10 8 0	0 4 0	0 4 3
Nagra, coarse	8 10 0	9 6 0	0 3 6	0 3 9
" medium	9 8 0	10 10 0	0 4 0	0 4 3
Dudhkalma	8 12 0	9 4 0	0 3 0	0 4 0
Rangoon Boiled	.....	.....	0 3 0	0 3 6
Kajla	8 6 0	.....	0 3 6	.....
Wheat, Dudhia	7 12 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 2 0	.....	.....	.....
Gram, Patnai (whole)	7 2 0	8 8 0	0 3 3	0 3 6
" dal	9 4 0	9 8 0	0 3 9	0 4 0
Mung " (Hari)	10 12 0	11 4 0	0 6 0	.....
" " (Krishna)	10 0 0	10 8 0	0 4 6	0 5 0
Arhar	8 8 0	11 0 0	0 3 6	0 5 0
Masur " (split)	7 8 0	8 10 0	0 3 3	0 4 0
" " (Khanri)	10 12 0	11 12 0	0 4 6	0 5 0
Kalai	7 12 0	9 4 0	0 3 3	0 5 0
Salt	3 3 6	3 7 0	0 1 6	0 1 9
Sugar (Brown Java)	20 12 0	21 2 0	0 8 6	.....
Gur, Bheli	.....	.....	0 4 6	.....
" Bhursut	11 0 0	11 4 0	0 5 0	.....
Milk	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	34 8 0	36 0 0	1 0 0	1 4 0
Flour (country)	9 4 0	10 0 0	0 2 6	0 4 6
Atta, No. 3	7 4 0	.....	.....	.....
" " 2½	7 12 0	.....	0 3 6	0 5 0
" " B	10 4 0	.....	.....	.....
Suji	10 0 0	10 8 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	90 0 0	91 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	85 0 0	86 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	79 0 0	80 0 0	2 3 0	.....
Maize	5 8 0	5 12 0	.....	.....
Potato	7 4 0	10 0 0	0 2 6	0 3 9
Patal	6 0 0	7 0 0	0 3 6	0 4 0
Brinjal	6 4 0	6 8 0	0 3 0	0 3 6
Onion	4 0 0	4 8 0	0 1 6	0 2 6
Fish, Rahu	20 0 0	25 0 0	0 12 0	0 14 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 3 0

N.B.—This is an abstract of price of the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphanganj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 27th October 1919.



## DAILY RAINFALL RECORDED IN

Division.

DISTRICT.

Station.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

24-Parganas

Saugor Island...

Diamond Harbour...

Budge-Budge...

Canning Town...

Allpore...

Barrackpore...

Dum-Dum...

Baran...

Barabhat...

Nadia

Ranaghat...

Krishnagar...

Chhatnaga...

Meherpur...

Kuchitla...

Haringhata...

Murshidabad.

Kandi...

Berhampore...

Lalbagh...

Azimganj...

Jangipur...

Lalgola...

Akriganj...

Patkabari...

Dumka...

Kalyanganj...

Jessore

Narail...

Jessore...

Jhenida...

Magneta...

Bongosa...

Khulna

Bathkha...

Baghat...

Khulna...

Kaliganj...

Nakipur...

Dumuria...

Rampal...

Kalra...

Paikgachha...

Molihat...

Moriganj...

Tala...

Burdwan.

Khila...

Burdwan...

Katra...

Asansol...

Mankar...

Margakot...

Royna...

Montuwar...

Birbhum...

Suri...

Hetampur...

Rampurhat...

Bolpur...

Murari...

Lalpur...

Bankura.

Bankura...

Vishnupur...

Mellara...

Khutia...

Indas...

Kotalpur...

Onda...

Ganga-Jalabati...

Kalpur...

Sonamukhi...

Taldanga...

Saranga...

Indpur...

Arbra...

Barjora...

Simlatal...

Mejla...

Sironmoupar...

Sitaladanga...

Chatus...

Rautbardi...

Saltora...

Joypur...

Ambikapur...



## BENGAL FOR THE MONTH OF SEPTEMBER 1919.

1	2	3	4	5	6	7	8	9	10	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Excess rainfall during the month.	Total rainfall from 1st June up to 30th September 1919.	Normal rainfall from 1st June up to 30th September.	Station.	DISTRICT.	DIVISION.	
			1.60	0.54			0.12		0.01	7	13.3	6.46	11.02	2.28	66.73	50.47	Saugor Island ...	Se-Parganas	PRESIDENCY.	
			0.70	0.25			0.26			7	12.6	2.73	10.32	0.70	73.37	50.16	Diamond Harbour.			
			0.31	0.21			0.28	0.16		9	12.8	3.32	10.41	0.69	62.06	48.71	Dudge-Budge.			
			1.12	3.10			0.36	0.11		11	12.7	10.81	10.05	3.10	65.56	46.77	Canning Town.			
			0.21	0.66			0.21	0.08		8	13.1	3.58	9.88	0.66	50.83	46.54	Alipore.			
			0.52	0.16			0.18	0.03		7	11.6	3.32	8.79	1.67	38.10	42.66	Barackpore.			
				1.08						6	13.4	3.37	9.69	1.05	47.12	45.10	Dum-Dum.			
	1.00		0.40	0.36		0.50	0.40	0.60	0.20	13	12.0	7.61	9.28	3.80	49.14	42.76	Barasat.			
			1.60	0.43			0.70		0.23	13	11.1	10.36	8.77	1.60	61.71	45.66	Basirhat.			
			2.50					1.00		9	10.6	10.80	8.41	2.50	47.69	40.30	Itanaghat	Nadia	PRESIDENCY.	
			0.44	0.13				0.46		11	10.7	8.73	7.49	5.08	38.92	39.26	Krishnagar.			
			0.06				1.33	0.55	0.75	14	11.3	8.37	8.71	1.59	36.60	40.74	Chundanga.			
								1.26	0.26	14	11.3	7.19	8.16	1.25	40.28	40.28	Meherpore.			
								1.67	0.28	6	11.5	4.43	9.28	1.67	18.84	41.88	Kushtia.			
								0.00	0.17	6		5.21	2.93	0.80	18.09	27.34	Harlinghata.			
												</								

(n) Not ascertained.



## DAILY RAINFALL RECORDED IN

BUDWAN-AMDA.

RAJSHAH.

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BUDWAN-AMDA.	Midnapore	Contal	1.05				1.17		0.77					0.02	0.39							
		Tamluk	0.11		0.03	0.07	0.02	0.59	0.47	0.19	0.04			0.02								
		Midnapore	0.26		0.03	0.09	0.03	0.15	0.70	0.65	0.06			0.44	0.14	0.17						
		Gusial	0.23		0.01	0.21	0.03		0.01	0.26	0.39	0.35			0.45				0.06		0.60	
		Kukrabati	0.09				0.41	0.27	0.28	0.40					0.19					0.07		
		Amlagura	0.40	0.30			0.56	0.13	0.34	1.73	0.24			0.60								
		Pandura	1.76		0.05	0.35	0.60				0.21			0.07	0.07					0.29	0.24	
		Dantan	0.39		0.22		0.78	0.39	0.75		0.86			0.15	0.45							
		Ohandakona																				
		Rachet	0.61		0.75		3.68		0.60													
		Bhagwanpur	0.86		0.06	0.19	1.16	0.12	0.81					0.26								
		Kutikri		0.40			0.43						0.90									
		Nayabani	0.55		0.08			0.18						0.35								
		Shila (Halsa)	0.40	0.13		0.03		1.80	0.36	0.73	0.10			0.03	0.13	1.16					0.90	0.34
		Ohandri																				
		Goakore																				
		Satbani	0.66	0.06	0.06	0.11		0.13	0.09	0.16	0.06		1.00	0.10	1.23							
		Narayanganj	0.43	0.47	0.53	0.28	0.29		0.08	0.06	0.10	0.03	0.09									0.03
		Ramanagar	1.10					0.94								0.31						
		Mohamput	1.66				1.45	0.07	0.33				1.70		0.51							
		Hencia		0.10	0.40		0.40	0.20	0.30													
		Jenka (Kajri)	0.53				2.95	0.10	0.93					0.33		0.04						
		Nandigram					2.30	0.16	0.15													
		Moyua																				
		Phinga			0.10	0.20	0.30				0.30	0.60										
		Narajole	0.60				0.91		0.10	0.43	0.04		0.03	0.32								
Hooghly		Serampore	0.73		0.03	0.01	0.14	0.03	0.01	0.04	0.06		0.24									
		Hooghly	0.62	0.90	0.04		1.60		0.18	0.33	0.53		0.66				0.03					
Arambagh	1.00	0.05	0.10	0.40		0.01	0.59	1.20	0.05		0.60	0.02	0.68									
Howrah	Howrah	0.66		0.13	0.13	0.14	0.07	0.03		1.05		0.37	0.05									
	Mohoreka	0.03			0.03	0.13	0.03	0.06	0.07	0.13						0.33						
Chubaria	0.90	0.10				0.14	0.18	0.05			0.08			0.18								
Amta	0.39	0.03		0.43	0.10			0.76	0.65		1.20		1.15									
Boalia	Boalia	0.93	0.39	0.08		1.12	0.41	0.25	1.38	0.05	1.37	1.06	0.08									
	Natore	0.45		0.40	1.08	0.18	0.04	0.18	0.03		2.68	0.21	0.81					0.45	2.37			
	Naugoon	0.65	0.07	0.23	0.49	0.26	0.53	0.24	0.21	0.05	0.28	1.39						0.10	0.26	1.53		
	Dilmara	0.24	0.24		1.03	0.36	0.30	0.10		0.25	0.55	0.45	1.93					0.30	0.90	1.25		
	Manda			0.70	0.25	1.00	1.00	0.20		0.25	0.90	0.40						0.28	0.46			
	Mahadebpur	0.78	1.22	0.04	0.16	0.46	0.21	2.45	0.21	0.22	0.8	0.36						0.50	0.01			
	Tamor	0.03		0.50	0.03	0.80	0.50	0.77	0.60		0.80						0.12	0.43	0.11	0.06		
	Chaugram	0.65	0.90	0.80	0.03	0.85	0.60	1.15	0.05		0.60	1.00	0.06							0.17		
	Jorai	0.05		0.19	0.13	0.19	0.25	0.33	0.24	0.08	2.08	0.26	0.13					0.76	0.14	1.95		
	Dinajpur	Nitlipur	0.76	0.80		0.60	0.30	0.60	0.80	0.30	0.55	2.00	0.10						0.60	0.17		
		Nawabganj	0.30	2.50	1.50	0.50		1.00	0.40			1.10	0.60								0.48	
		Gangarampur		1.16	0.64	0.01	2.63	0.06	0.97	0.23			0.73						1.80	0.90	0.10	
Churnanou		0.61	0.46		0.44	0.26	0.80	0.14	0.23		0.17	0.78								1.15		
Baigunji		0.37	1.34	0.10	0.12	1.07	0.41	0.87	0.80	0.15	0.20	3.61	0.05						0.9			
Dhupur			0.60	0.13	0.30	0.66	0.10	2.15	1.15		0.27	2.71	0.20					0.08				
Balorghat		0.10	0.88	0.88	0.26	3.60		0.88	0.76		0.10	1.31								0.11		
Thakurgaon			0.12	0.59	2.42	0.51	0.03	1.65	2.67	0.97	0.09	1.01	0.86					0.72	1.30	0.15		
Sataganj			0.70	0.90	0.20	1.30	0.76		1.18	0.50	0.44	0.90				0.03		0.64	0.53	0.04		
Hemaganj		0.03	0.12	0.46	0.44	4.30		1.24	1.32	0.19	0.39	0.32	0.18					0.60	0.20	0.30		
Atwar			0.00	0.78				4.00	2.15		3.18	4.25				0.13		1.19		0.44		
Birganj																	0.15			2.04		
Parbatipur		0.90	0.58	0.67	0.25		1.50	2.00	0.37	0.18	1.09	0.37					0.80		0.70			
Jalpalguri	Jalpalguri	0.18	0.00	1.03	0.07		0.50	2.56	3.60	0.81	1.59	0.23	0.55				0.58	0.13		0.65		
	Alipur Duarg	1.01	1.50	0.44	0.04	0.17	0.23	1.10	3.75	0.64	3.75	3.35	0.07						0.04	1.80		
	Bankata							1.36	3.65	0.61	1.35	1.35										
	Dobkanj	0.13	3.23	0.13				2.75	2.03	0.63	5.21	2.23	1.16							0.39		
Shangpur	Shangpur	0.33		0.08	1.23	0.09		2.75	2.03	0.63	5.21	2.23	1.16							0.39		
	(Nagarkata)																					
	Busa	0.60	0.60			0.12	0.80	2.70	2.85	0.70	10.08	2.30			0.04							
	Kulehni	0.67	0.71	0.13	0.08	0.09	1.93	3.64	0.31	0.52	3.94	0.94			0.18		1.08		3.06			
Kumargram	Kumargram		1.63	0.24	0.05	0.74		1.61	3.06	0.23	7.40	3.95					3.29		0.45			
Darjeeling	Siliguri	0.50	0.42	1.52	0.54	0.35		4.35	1.65	0.34	0.78	3.80	1.78									
	Darjeeling	1.55	0.84	1.26	1.68	1.19	0.67	2.63	1.83	0.32	1.80	3.77	0.68									
	Kalimpong	1.55	0.30	1.26	0.37	0.17	0.46	2.34	0.49	0.04	1.55	1.09	0.74	0.05		1.39	0.48	0.39	0.12	0.05		
	Mangho	1.16	0.46	1.91	0.75	0.62	0.51	3.29	1.79	0.33	0.61	3.36	1.40	0.01		0.07	0.02	0.46	0.47	0.01		
	Kuwong	1.72	1.07	2.15	0.43	0.34	0.33	5.92	2.82	0.97	0.63	3.07	1.13			0.44	0.27	0.19	0.06	0.67		
	Pedong	2.09	0.37	1.56	0.99	0.91	0.45	3.64	0.94	0.17	1.74	1.81	0.49	0.44	0.13	0.27	0.08	0.56	0.69	0.01		
Raipur	Bhawaniganj		1.46	0.09	0.65	0.06		0.87	0.15		0.93	0.83										
	(Gatabadha)																					
	Raipur		0.87	0.50		0.13		0.12	0.13	3.33	0.30	1.19	0.68					1.17	0.10	0.38		
	Phirganj																					
	Kudaganj		0.60	0.09	0.17	0.68		0.73		3.85	0.01	0.94	1.95									
	Gobindganj	0.40	0.31	1.20	1.60	0.65	0.40	0.34		1.60	1.00	0.83						0.88	1.15	0.09		
	Bagdara		0.24	0.33				0.92	1.72	1.07		1.69	2.69	1.26	1.30			0.67	0.16			
	(Alphamari)																					
	Uthur		0.68			0.66		0.65	0.75		0.85	0.38	0.75									
	Su-dargauj		1.56	0.23	0.05	0.21		0.40	1.41		0.10	1.58							0.25	1.78		
Saidpur	1.30	0.15	1.22	0.26		0.80	0.91	0.22	0.03	2.35	1.37	0.35						0.13	0.10			
Bogra	Sherpur																					
	N-wkilla		0.63	0.10	0.15	0.30	0.45	1.65	0.21		0.50											
	Bogra		0.98	0.47	0.27	0.30	0.18	0.65	0.23		0.65	0.07	0.68						0.19	3.47		
	Panchibibi		0.31	1.24	1.10	1.12	0.19	0.44	0.12	0.21	1.17	0.26	0.37						1.75	0.23		
Pabna	Khetla																					
	Shahmadpur	1.15		1.47	0.99	1.04	1.47	0.20	3.40	1.04												
	Pabna	0.07	0.13		0.83	0.14	0.18	0.57		1.18	0.44											

\* Return not received.







## DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
RAJ. SHAMI.	Malda	Malda	0.11	2.15	0.09	1.23	0.34	1.49	0.75	0.09	0.80	0.16	2.38	0.21	...	...	...	...	...	0.39	0.54	...	...
		Chanchal	0.12	0.78	0.16	0.54	0.65	0.19	1.75	0.12	...	0.03	0.44	0.14	...	...	...	...	...	0.13	0.39	...	...
		Gasol	0.50	0.65	0.70	0.09	...	0.48	1.45	0.45	...	...	1.80	0.15	...	...	...	0.21	...	0.25	0.07	0.30	...
		Silghur	0.10	0.54	...	0.90	1.35	0.80	...	0.50	0.90	0.30	...	...	...	...	...	...	1.31	0.30	...	...	...
		Gomastapur	...	0.76	...	...	0.94	2.44	0.56	0.35	0.10	0.23	...	1.44	...	...	...	...	...	0.22	...	...	...
		Nawalganj	...	...	...	0.29	...	2.71	...	0.75	1.80	...	1.37	...	...	...	1.25	...	...	...	...	...	
Dacca.	Dacca	Munshiganj	0.12	0.61	0.02	1.73	0.07	0.19	1.55	0.23	0.21	0.28	...	...	...	0.02	...	0.30	0.21	...	0.02	...	
		Dacca	0.31	0.34	0.01	7.04	0.21	0.13	0.35	2.02	0.31	1.45	0.03	...	...	...	...	...	0.01	...	0.70	...	
		Nawalganj	0.16	...	0.50	2.82	0.16	0.13	0.22	0.65	0.35	0.05	...	...	...	...	...	...	...	0.03	...	0.26	0.01
		Narayanganj	0.15	0.46	0.03	1.07	0.03	0.02	1.09	0.07	0.76	2.03	0.02	...	...	...	...	...	...	0.40	...	0.07	...
		Narsingdi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manikganj	0.20	0.80	0.12	0.24	0.24	1.30	1.16	0.12	1.27	0.84	...	...	...	...	...	...	...	...	1.25	...	...
		Jaydipn	0.03	1.78	0.55	0.06	0.25	0.19	1.83	0.13	1.18	1.21	0.15	...	...	...	...	0.11	...	...	0.03	0.03	...
		Kapasia	0.15	0.16	...	...	...	0.17	1.10	0.90	1.10	0.56	...	...	...	...	...	...	0.15	0.30	0.30	0.30	0.40
Mymensingh	Mymensingh	Kishorganj	...	...	0.45	0.16	...	0.22	1.95	1.50	...	3.05	...	...	...	...	...	0.63	0.04	...	0.85	0.15	
		Atia (Tangail)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sadulbari	0.30	0.15	0.25	0.20	1.30	0.05	...	...	...	0.80	...	...	...	...	...	...	...	1.15	1.80	0.50	...
		Mymensingh	...	0.31	0.38	...	0.19	0.04	0.31	...	...	0.12	0.01	0.04	...	...	...	0.02	...	0.43	0.11	1.03	...
		Jamshilpur	...	...	...	...	0.30	0.30	0.23	0.50	...	0.80	...	0.37	...	...	...	...	...	0.23	0.37	2.71	0.34
		Netrokona	0.04	0.80	0.73	0.22	0.20	1.20	0.80	0.07	0.23	1.85	1.55	0.04	...	...	...	...	...	...	1.05	0.24	0.84
		Pingra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dumapuri	0.25	0.25	1.19	0.55	0.50	1.05	1.43	0.16	0.75	0.35	...	...	...	...	...	...	...	...	2.15	1.79	0.25
		Shampur	...	0.28	...	...	0.07	0.28	0.45	0.39	...	0.83	0.41	0.05	...	...	...	...	...	0.80	2.60	...	0.73
		(Tota)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dawanganj	...	0.52	0.87	...	0.12	0.07	1.12	0.50	...	0.92	0.07	0.05	...	...	...	...	...	...	2.60	0.09	1.55
		Nalitbari	...	0.55	0.55	0.03	0.75	0.35	0.45	...	0.25	0.93	...	...	...	...	...	...	...	...	2.10	0.30	1.30
Dridpur	Dridpur	Madaripur	0.17	0.45	0.14	0.02	...	1.02	1.44	1.63	...	0.71	0.34	...	...	...	...	...	...	...	0.37	...	
		Fardpur	0.20	1.05	...	0.10	0.29	1.04	0.92	0.12	...	0.27	...	0.20	...	...	...	...	...	...	0.28	1.52	
		Rajbari	0.18	0.42	0.59	0.95	0.49	0.11	1.60	0.15	0.70	...	...	...	...	...	...	...	0.68	...	0.25	...	
		(Gauland)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Hartidpur	0.25	1.04	0.05	0.02	1.21	0.55	3.05	0.30	0.50	0.01	0.34	...	...	...	...	...	...	...	...	...	
		Takorhat	0.23	0.64	0.05	0.52	0.24	1.55	0.55	0.17	0.25	0.31	0.15	0.02	...	...	...	...	...	...	0.03	...	
		Bhanga	2.85	0.60	2.50	0.25	1.50	2.35	2.10	0.75	0.95	1.05	0.05	...	...	...	...	...	0.05	0.05	...	...	...
		Pangra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dalukandi	0.01	0.50	0.02	1.02	0.50	1.57	0.45	0.05	...	0.02	...	...	...	...	...	...	...	1.50	...	0.41	...
		Bhanga	0.43	1.04	...	2.55	0.57	1.10	0.70	0.05	0.18	0.22	...	0.11	...	...	...	...	0.04	...	...	0.32	...
Bakerganj	Bakerganj	Patuakhali	0.20	2.60	...	0.95	0.21	1.55	2.74	0.05	0.05	0.75	0.20	...	...	...	...	...	0.69	...	...	0.20	
		Barguna	0.63	0.07	...	0.45	2.85	2.01	0.01	0.12	0.89	0.45	...	...	...	...	...	...	0.10	0.07	...	...	0.20
		Phirpur	0.60	0.49	...	...	0.15	1.40	2.34	...	0.06	0.19	0.04	0.22	...	...	...	...	...	...	...	...	
		Baidyal	1.59	0.29	0.01	...	2.10	1.00	...	...	...	0.13	0.28	0.03	...	...	...	...	...	0.02	...	...	0.03
		Gaurmudi	0.25	0.55	...	0.45	0.02	0.25	1.95	0.00	0.02	0.72	0.25	1.12	...	...	...	...	...	...	...	...	
		Bhola	1.20	1.13	...	0.03	0.44	0.70	1.23	...	2.59	0.53	1.63	...	...	...	...	...	...	0.04	...	...	0.27
		Daudkhan	1.15	0.53	0.22	1.30	0.15	0.61	1.55	...	0.35	1.45	0.55	...	...	...	...	...	...	0.26	...	0.27	...
		Bauphal	0.53	...	0.09	0.41	2.50	...	...	...	0.20	0.12	...	...	...	...	...	...	...	...	...	0.17	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittagong	Chittagong	Cox's Bazar	2.31	1.55	1.24	1.60	0.54	2.25	2.59	0.78	2.49	1.53	...	...	...	...	...	...	0.31	...	0.01	0.14	
		Chittagong	0.21	2.40	0.60	0.10	0.12	2.05	2.30	2.30	1.47	1.10	0.02	...	...	...	...	...	0.26	0.60	0.57	0.10	...
		Kutubdia	1.22	2.02	0.80	0.55	0.35	2.24	0.57	1.23	1.55	1.19	...	...	...	...	...	...	...	0.67	0.15	...	...
		Satkhula	...	0.60	...	0.27	0.70	2.53	1.53	1.07	1.30	...	0.05	...	...	...	...	...	0.27	0.40	0.07	0.45	...
		Kodala	1.25	0.60	0.05	...	1.70	1.20	2.05	0.62	0.74	...	...	...	...	...	...	...	0.15	1.00	0.05	0.16	...
		Mirnar	2.10	2.00	...	0.29	1.50	0.50	1.05	1.07	2.55	0.67	...	...	...	...	...	0.09	...	1.25	1.10	0.32	
Tippera	Tippera	Gomilla	0.10	2.04	0.25	...	0.64	1.50	1.50	0.72	1.10	2.55	0.15	0.21	...	...	...	...	0.05	...	0.12	0.15	
		Chandpur	0.20	0.70	1.23	0.04	0.04	...	2.14	0.21	...	1.31	1.19	1.59	...	...	...	...	...	0.11	0.10	...	
		Drumkhabari	0.02	0.25	...	0.12	0.43	0.60	1.95	0.27	0.51	0.95	...	0.24	...	...	...	...	...	0.04	...	0.29	0.25
		Ramchandrapur	0.31	0.11	0.15	0.25	0.72	2.05	0.11	0.20	3.72	...	...	...	...	...	...	...	1.04	0.25	...	0.26	0.50
		Nasirpur	...	...	...	...	0.45	1.52	...	1.67	...	...	0.45	...	...	...	...	...	...	...	...	...	0.55
Noakhali	Noakhali	Daudkandi	1.10	0.50	0.22	...	0.25	1.52	0.13	2.05	1.52	0.05	...	...	...	...	...	...	...	0.05	0.05	...	...
		Karba	0.75	...	...	...	...	0.85	1.70	0.80	0.40	1.07	...	...	...	...	...	...	...	0.77	...	0.05	0.23
		Laksmi	0.11	2.34	0.40	...	0.55	0.70	1.20	0.02	0.40	0.50	0.83	...	...	...	...	...	0.21	...	1.50	1.15	...
		Noakhali	0.25	2.05	0.55	0.70	0.55	1.12	2.10	0.15	0.10	2.55	0.55	...	...	...	...	...	...	...	1.14	0.55	...
		Feni	0.57	1.22	0.75	...	0.55	1.35	2.04	0.94	0.72	2.45	2.22	...	...	...	...	...	...	0.52	1.32	0.10	0.52
Chittagong Hill Tracts.	Chittagong Hill Tracts.	Harijpur	0.50	2.45	1.05	0.39	0.24	2.07	2.31	1.75	0.92	2.02	0.05	...	...	...	...	...	0.55	2.27	1.43	0.65	...
		Rangpur	0.45	0.55	0.15	0.20	0.14	0.70	0.29	0.10	1.45	0.79	0.17	...	...	...	...	...	...	...	...	...	...
		Chittagong	0.58	1.52	0.22	...	...	2.24	2.10	0.55	2.10	2.15	1.95	...	...	...	...	...	...	1.05	2.15	...	...
		Hatliya	1.74	0.90	0.15	0.43	0.55	2.35	1.72	0.13	...	2.00	...	...	...	...	...	...	0.09	...	2.17	...	0.23
		Lakshmipur	...	0.17	...	0.18	0.15	0.17	1.27	...	0.55	0.55	1.75	...	...	...	...	...	...	...			



1	2	3	4	5	6	7	8	9	10	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Excess rainfall during the month.	Total rainfall from 1st June up to 30th Sept. 1919.	Normal rainfall from 1st June up to 30th Sept.	Station.	District.	Division.
0.22	1.30	0.60	0.07	0.36	0.90	0.00	0.00	0.00	0.09	12	11.0	11.88	10.00	3.88	67.30	41.09	Malda.	Malda	Bahadur.
0.23	0.30	0.60	0.07	0.36	0.90	0.00	0.00	0.00	0.16	12	10.9	10.7	10.00	0.7	47.30	47.81	Chanchal.	Malda	
0.23	0.30	0.60	0.07	0.36	0.90	0.00	0.00	0.00	0.16	11	9.3	10.4	10.00	1.1	47.30	47.81	Hibganj.	Malda	
0.23	0.30	0.60	0.07	0.36	0.90	0.00	0.00	0.00	0.16	11	11.3	9.9	10.00	1.4	47.30	47.81	Gomastapur.	Malda	
0.23	0.30	0.60	0.07	0.36	0.90	0.00	0.00	0.00	0.16	11	11.3	9.9	10.00	1.4	47.30	47.81	Nawabganj.	Malda	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	13.3	17.33	10.00	7.33	64.62	62.37	Munahiganj.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	11.5	32.33	9.10	23.23	67.17	48.64	Dacca.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	7.7	16.82	8.66	8.16	46.77	46.77	Nawabganj.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	11.8	14.78	9.64	5.14	50.60	50.60	Narayanganj.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	10.7	10.7	10.00	0.7	46.87	46.87	Narayanganj.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	10.6	10.78	9.71	1.07	54.46	43.83	Mauliketan.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	12.9	16.94	9.71	7.23	50.94	50.94	Joydebpur.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	12.8	6.94	8.66	1.70	50.16	50.16	Kapada.	Dacca	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	13.7	32.33	12.44	20.89	60.06	60.06	Kishanganj.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	8.4	8.70	6.10	2.60	42.90	42.90	Atta (Tungab.)	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	14.8	10.31	14.11	3.80	47.46	47.46	Barisal.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	18.1	9.34	12.60	3.26	64.69	64.69	Mymensingh.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	15.6	31.38	13.01	18.37	53.32	53.32	Jamnapur.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	7.6	7.6	6.63	0.97	79.33	79.33	Netrokona.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19	14.0	32.33	12.46	19.87	42.79	42.79	Pinna.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	13.7	10.31	13.10	2.79	105.67	105.67	Durgapur.	Mymensingh	
0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	13.7	10.31	13.10	2.79	63				

(n) Not ascertained.

J. C. ROY,  
for *Director of Agriculture, Bengal.*



## Vital Statistics of the Towns with a population of 10,000

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births).	Still-born number registered.	Obolers.	Small- pox.	Plague.
Burdwan ...	1	Burdwan ...	20,527	15,394	35,921	24	...	...	...	...
	2	Raniganj ...	8,417	7,080	15,497	29	...	...	...	...
	3	Asansol ...	12,486	9,433	21,919	35	...	6	1	...
Bankura ...	4	Bankura ...	12,156	11,297	23,453	43	...	...	...	...
	5	Vishnupur ...	10,025	10,453	20,478	28	...	13	...	...
	6	Sonamukhi ...	6,254	7,021	13,275	8	...	...	...	...
Midnapore ...	7	Midnapore ...	17,577	15,163	32,740	32	1	1	...	...
	8	Ghatal ...	6,216	5,848	12,064	7	1	...	...	...
Hooghly ...	9	Hooghly and Chin- sura.	15,817	13,099	28,916	46	...	...	1	...
	10	Serampore ...	19,639	12,439	32,078	35	...	2	1	...
	11	Rishra Konnagore...	10,724	6,792	17,516	25	...	2	1	...
	12	Baidyabati ...	Figures not available			20	...	1	...	...
	13	Bhadreswar ...				16	...	1	...	...
Howrah ...	14	Champdani ...				17	...	...	...	...
	15	Howrah ...	114,829	64,580	179,389	349	53	14	14	...
	16	Bally ...	14,217	8,177	22,394	34	...	...	...	...
	17	Cossipore-Chitpur ...	30,793	17,385	48,178	78	3	...	...	...
	18	Maniktala ...	31,735	22,032	53,767	70	5	4	2	...
24-Parganas	19	South Suburban ...	17,683	13,850	31,533	36	1	4	2	...
	20	Tollygunge ...	11,183	7,250	18,433	31	2	...	...	...
	21	Garden Reach ...	27,665	17,630	45,295	69	4	...	...	...
	22	Budge-Budge ...	11,529	6,453	17,982	13	...	...	...	...
	23	Baranagar ...	14,982	10,913	25,895	52	2	...	...	...
	24	Kamarhati ...	11,243	6,772	18,015	26	2	...	...	...
	25	Rajpur ...	5,762	5,845	11,607	23	...	...	2	...
	26	South Dum-Dum ...	7,760	5,114	12,874	19	...	...	...	...
	27	Barraokpore ...	11,357	6,944	18,301	17	...	...	...	...
	28	Panihati ...	6,339	4,779	11,118	9	...	1	...	...
	29	North Barraokpore...	9,780	6,340	16,120	17	...	...	...	...
	30	Tittagagh ...	31,225	13,946	45,171	73	9	...	...	...
	31	Garulia ...	7,876	3,704	11,580	6	...	1	1	...
	32	Naihati ...	11,685	6,534	18,219	15	...	5	...	...
	33	Bhatpara ...	34,739	15,675	50,414	54	2	6	4	...
	34	Basirhat ...	9,517	8,814	18,331	25	1	...	...	...
	35	Baduria ...	7,058	6,622	13,680	11	...	...	...	...
Calcutta ...	36	Calcutta ...	607,674	288,393	896,067	1,401	90	31	58	...
Nadia ...	37	Krishnagar ...	11,767	11,708	23,475	18	...	...	...	...
	38	Nadia or Nabadwip	5,821	6,659	12,480	7	...	...	...	...
	39	Santipur ...	12,186	14,517	26,703	54	...	...	...	...



and over, of Bengal, for the month of August 1918.

REGISTERED.

Febr.	Dysentery and diarrhoea.	Respiratory disease.	Injuries including ampute.	Other causes.	Total of all causes.			Total of corresponding month of previous year.			No.	Towns.
					Male.	Female.	Total.	Male.	Female.	Total.		
37	21	11	1	14	53	31	84	69	32	101	1	Burdwan.
8	3	1	1	9	15	7	22	17	16	33	2	Raniganj.
24	6	2	1	...	27	13	40	28	17	45	3	Asansol.
15	8	3	1	9	20	16	36	37	18	55	4	Bankura.
16	13	...	1	12	26	29	55	31	23	54	5	Vishnupur.
15	1	1	...	2	6	13	19	17	18	35	6	Sonamukhi.
16	8	14	1	14	32	22	54	28	25	53	7	Midnapore.
24	6	4	1	1	24	12	36	16	14	30	8	Ghatal.
15	3	13	...	16	25	23	48	45	35	80	9	Hooghly and Chinsura.
30	14	23	1	21	57	35	92	32	28	60	10	Serampore.
28	2	2	1	6	21	21	42	14	8	22	11	Rishra Konnagore.
18	8	5	...	3	21	14	35	29	21	50	12	Baidyabati.
12	8	4	...	2	7	15	22	12	7	19	13	Bhadreswar.
20	1	1	...	...	9	13	22	7	7	14	14	Champdani
190	82	138	7	149	321	273	594	186	172	358	15	Howrah.
21	9	7	...	3	17	23	40	11	10	21	16	Bally.
39	7	13	1	32	51	41	92	52	43	95	17	Cossipore-Chitpur.
43	13	35	4	54	74	81	155	70	69	139	18	Maniktala.
24	4	10	3	14	27	34	61	25	19	44	19	South Suburban.
10	3	2	1	...	8	8	16	20	9	29	20	Tollygunge.
21	9	10	1	16	21	36	57	52	32	84	21	Garden Reach.
32	13	4	...	2	34	17	51	26	8	34	22	Budge-Budge.
12	23	11	2	13	30	31	61	31	28	59	23	Baranagore.
26	11	...	...	9	29	17	46	14	6	20	24	Kamarhati.
16	1	1	1	...	9	12	21	8	4	12	25	Rajpur.
11	4	5	1	4	19	6	25	9	7	16	26	South Dum-Dum.
17	1	5	...	...	10	13	23	8	6	14	27	Barrackpore.
9	3	6	...	3	15	7	22	11	12	23	28	Panihati.
10	4	7	...	3	15	9	24	13	6	19	29	North Barrackpore.
110	8	1	2	10	74	57	131	57	37	94	30	Titagarh.
7	1	5	...	...	10	5	15	4	3	7	31	Garulia.
10	1	1	...	3	9	11	20	10	6	16	32	Naihati.
46	5	4	2	9	32	44	76	20	15	35	33	Bhatpara.
25	1	1	...	4	20	11	31	16	17	33	34	Basirhat.
14	4	3	...	3	14	10	24	6	12	18	35	Baduria.
467	272	553	36	967	1,386	998	2,384	1,133	817	1,950	36	Calcutta.
5	...	7	...	6	10	8	18	21	9	30	37	Kriehnagar.
12	7	3	1	3	12	14	26	9	17	26	38	Nadia or Nabadwip
26	2	4	3	17	30	22	52	33	33	66	39	Santipur.



## Vital Statistics of the Towns with a population of 10,000

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still-births.)	Still-born number registered.	Cholera.	Small-pox.	Plague.
Murahidabad	40	Berhampore ...	14,302	11,841	26,143	29	...	1	...	...
	41	Murahidabad ...	6,259	6,410	12,669	14	...	2	...	...
	42	Ajimganj ...	6,725	5,602	12,327	13	...	1	2	...
	43	Kandi ...	6,212	6,426	12,638	14	1	...	...	...
	44	Jaugipur ...	5,493	5,915	11,408	13	...	...	...	...
Khulna ...	45	Khulna ...	7,983	5,013	12,996	13	...	...	...	...
	46	Satkhira ...	5,802	5,100	10,902	2	...	...	...	...
Rajshahi ...	47	Rampur-Boalia ...	13,057	10,349	23,406	36	...	...	...	...
Dinajpur ...	48	Dinajpur ...	9,648	6,297	15,945	14	...	7	7	...
Jalpaiguri ...	49	Jalpaiguri ...	7,547	4,218	11,765	11	1	1	...	...
Darjeeling ...	50	Darjeeling ...	11,631	7,374	19,005	37	...	...	...	...
Rangpur ...	51	Rangpur ...	10,509	5,920	16,429	9	1	...	...	...
Pabna ...	52	Pabna ...	10,056	9,218	19,274	15	...	1	1	...
	53	Sirajganj ...	13,236	11,541	24,777	24	1	4	...	...
Malda ...	54	English Bazar ...	7,697	6,025	14,322	12	...	...	5	...
	55	Nawabganj ...	11,122	12,200	23,322	22	...	1	...	...
Dacca ...	56	Dacca ...	63,091	45,460	108,551	212	11	1	3	...
	57	Narayanganj ...	18,738	9,138	27,876	43	1	3	1	...
Mymensingh	58	Mymensingh ...	13,462	6,391	19,853	18	...	5	...	...
	59	Notrakona ...	8,018	5,722	13,740	32	...	...	...	...
	60	Jamalpur ...	11,728	9,381	21,109	31	1	...	1	...
	61	Sherpur ...	8,516	7,075	15,591	29	...	...	...	...
	62	Kishoreganj ...	9,508	8,518	18,026	23	...	...	...	...
	63	Bajitpur ...	5,447	5,386	10,833	18	1	...	...	...
	64	Tangail ...	8,493	7,869	16,362	23	1	1	...	...
Faridpur ...	65	Faridpur ...	8,017	5,114	13,131	12	1	...	...	...
	66	Madaripur ...	10,549	8,524	19,073	32	1	...	2	...
Bakarganj ...	67	Barisal ...	15,488	6,985	22,473	23	...	...	...	...
	68	Pirojpur ...	6,523	5,473	11,996	15	...	...	...	...
Chittagong ...	69	Chittagong ...	18,779	9,987	28,766	88	1	13	...	...
Tippera ...	70	Comilla ...	13,706	8,986	22,692	23	...	...	...	...
	71	Brahmanbaria ...	11,671	10,624	22,295	33	...	...	1	...
	72	Chandpur ...	9,062	3,655	12,717	11	...	...	...	...
Total of month...			...	...	2,618,159	3,811	198	133	110	...
Total of corresponding month of previous year.			...	...	...	3,710	157	120	27	1
Increase + or decrease — ...			...	...	...	+101	+41	+13	+83	-1

## REMARKS—

1. The above table is compiled from returns collected by the Municipalities and submitted to this office by the Civil Surgeons. Taken as a whole, the statistics are in general reliable, but in a few instances are obviously incomplete.
2. The vital statistics of Municipalities with a population of less than 10,000 have been excluded from this statement and incorporated in the statement of the Municipalities with a population of less than 10,000.
3. The birth and death ratios per 1,000 per annum have been omitted from this statement according to the Government of India, Educa

CALCUTTA,

The 22nd October 1919.



and over, of Bengal, for the month of August 1918—conold.

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total of all causes.			Total of corresponding month of previous year.			No.	Towns.
					Male.	Female.	Total.	Male.	Female.	Total.		
6	1	5	1	18	22	19	32	30	17	47	40	Berhampore.
12	1	...	...	...	9	6	15	14	19	33	41	Murshidabad.
10	2	1	...	6	12	10	22	19	15	34	42	Ajimganj.
14	2	...	1	7	13	11	24	8	10	18	43	Kandi.
11	...	...	...	...	6	5	11	10	11	21	44	Jangipur.
19	1	...	2	4	13	13	26	18	6	24	45	Khulna.
4	...	2	1	1	4	4	8	7	7	14	46	Satkhira.
13	8	...	1	10	16	11	27	21	21	42	47	Rampur-Bosha.
12	5	7	...	4	28	14	42	17	12	29	48	Dinajpur.
9	6	22	...	3	30	11	41	23	6	29	49	Jalpaiguri
15	5	9	2	3	20	14	34	25	19	44	50	Darjeeling
12	...	2	...	1	10	5	15	15	7	22	51	Rangpur.
6	2	1	1	1	8	5	13	8	5	13	52	Pabna.
10	2	...	2	4	15	7	22	12	3	15	53	Sirajganj.
10	1	3	...	2	13	8	21	17	16	33	54	English-Bazar.
22	...	1	...	2	12	14	26	21	15	36	55	Nawabganj.
261	29	18	3	94	224	185	409	158	95	253	56	Dacca.
46	3	8	...	15	60	26	76	30	16	46	57	Narayanganj.
21	5	6	2	5	27	17	44	36	17	53	58	Mymensingh.
3	1	1	...	3	5	8	8	4	3	7	59	Netrokona.
28	3	...	...	9	19	22	41	27	24	51	60	Jamalpur.
19	3	...	1	5	21	7	28	11	13	24	61	Sherpur.
12	9	5	...	1	15	12	27	15	20	35	62	Kishoreganj
13	3	...	...	5	10	11	21	5	9	14	63	Bajitpur.
16	2	2	...	7	13	15	28	13	9	22	64	Tangail.
13	2	...	1	3	10	9	19	24	5	29	65	Faridpur.
10	...	1	2	14	15	14	29	15	12	27	66	Madaripur.
19	2	6	...	15	26	16	42	21	7	28	67	Barisal.
4	...	2	...	4	5	5	10	10	6	16	68	Pirojpur.
42	8	2	1	45	53	58	111	29	27	56	69	Chittagong.
10	3	...	...	6	9	10	19	10	3	13	70	Comilla.
21	...	5	2	15	26	18	44	25	15	40	71	Brahmanbaria.
11	3	1	...	3	10	8	18	6	9	15	72	Chandpur.
2,215	692	1,080	97	1,748	3,889	2,636	6,025	...	...	...		
1,851	565	854	92	1,566	2,931	2,145	5,076	2,931	2,145	5,076		
+364	+127	+176	+5	+182	+458	+491	+949	...	...	...		

whole the table possesses a relative value, although the figures for individual towns probably only approximate to the actual in a proportion  
 reported in the returns for Districts—vide Bengal Government, Municipal Department, letter No. 118San., dated the 8th February 1918  
 tion Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
 Sanitary Commissioner for Bengal.



## Vital Statistics of the Districts excluding Towns with a population

Division	No.	Districts.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still- births).	Still-born number registered.	Cholera.	Small- pox.	Plague.
Burdwan ...	1	Burdwan ...	728,894	786,140	1,465,034	1,586	17	109	23	...
	2	Birbhum ...	468,888	471,635	985,473	1,048	33	268	12	...
	3	Bankura ...	634,150	547,314	1,081,464	1,210	...	74	7	...
	4	Midnapore ...	1,386,921	1,389,476	2,776,397	3,377	104	88	48	...
	5	Hooghly and Seram- pore.	481,989	484,729	966,718	1,033	1	41	35	...
	6	Howrah ...	869,595	372,124	741,719	1,058	16	19	32	...
Presidency ...	7	24-Parganas ...	1,005,789	941,802	1,947,591	2,693	41	38	40	...
	8	Nadia ...	782,806	772,382	1,555,188	2,011	57	1	51	...
	9	Murshidabad ...	639,301	657,788	1,297,089	1,853	86	87	...	...
	10	Jessore ...	901,092	857,172	1,758,264	1,644	82	5	9	...
	11	Khulna ...	695,794	647,074	1,342,868	1,766	110	26	...	...
Rajahahi ...	12	Rajahahi ...	742,149	715,032	1,457,181	1,893	161	38	31	...
	13	Dinajpur ...	880,228	791,690	1,671,918	2,844	120	51	405	...
	14	Jalpaiguri ...	482,681	408,214	890,895	1,716	148	239	29	...
	15	Barjeeling ...	130,463	116,082	246,545	591	36	22	6	...
	16	Rangpur ...	1,244,208	1,124,693	2,368,901	4,698	296	161	423	...
	17	Bogra ...	502,526	481,041	983,567	1,217	80	26	146	...
	18	Pabna ...	700,299	684,236	1,384,535	1,353	84	21	143	...
	19	Malda ...	479,728	486,787	966,515	1,311	58	...	45	...
Dacca ...	20	Dacca ...	1,895,861	1,428,114	2,823,975	2,894	254	13	58	...
	21	Mymensingh ...	2,274,431	2,136,477	4,410,908	4,887	310	135	113	...
	22	Faizpur ...	1,056,393	1,033,317	2,089,710	2,288	116	4	33	...
	23	Bakarganj ...	1,222,824	1,171,618	2,394,442	2,368	72	135	11	...
Chittagong ...	24	Chittagong ...	704,058	775,609	1,479,667	2,394	282	535	5	...
	25	Noakhali ...	645,898	656,192	1,302,090	1,860	190	538	30	...
	26	Tippera ...	1,208,642	1,163,792	2,372,434	2,366	189	61	98	...
	27	Chittagong Tracts. Hill								Not under
Total of month for Bengal			21,660,558	21,050,530	42,711,088	53,959	2,928	2,785	1,833	...
Total of corresponding month of previous year			...	...	...	64,570	3,176	1,818	218	...
Increase + or decrease -			...	...	...	-10,611	-248	+917	+1,615	...

- REMARKS—1. The above table is compiled from returns collected by the thana police officers and submitted to this office by the to the actual.
2. The vital statistics of municipalities with a population of less than 10,000 have been included in this statement with
3. Divisional totals and the birth and death ratios per 1,000 per annum have been omitted from the statement according

CALCUTTA,  
The 22nd October 1919.



*of 10,000 and over, of Bengal, for the month of August 1919.*

REGISTERED.

Fever.	Dysentery and Diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.			Number.	Districts.
					Male.	Female.	Total.	Male.	Female.	Total.		
3,298	67	14	60	280	1,965	1,886	3,851	2,090	1,653	3,743	1	Burdwan.
2,897	26	3	38	112	1,825	1,523	3,348	1,215	1,121	2,336	2	Birbhum.
1,675	42	5	28	281	1,131	981	2,112	1,270	1,009	2,279	3	Bankura.
4,833	74	20	132	753	3,049	2,899	5,948	2,549	2,113	4,662	4	Midnapore.
1,922	108	27	69	228	1,267	1,163	2,430	1,329	1,106	2,435	5	Hooghly and Serampore.
673	210	55	46	258	658	630	1,288	622	470	1,092	6	Howrah.
3,703	51	58	162	424	2,360	2,116	4,476	1,922	1,464	3,386	7	24-Parganas.
2,321	4	13	102	316	1,509	1,299	2,808	2,364	1,911	4,175	8	Nadia.
2,208	4	3	98	292	1,421	1,271	2,692	1,850	1,607	3,457	9	Murshidabad.
2,419	2	3	149	133	1,516	1,204	2,720	1,901	1,317	3,218	10	Jessore.
2,478	9	4	76	564	1,626	1,531	3,157	1,394	1,206	2,600	11	Khulna.
2,394	1	4	118	220	1,453	1,353	2,806	2,306	1,611	3,917	12	Rajshahi.
3,615	1	4	83	116	2,340	1,935	4,275	1,683	1,290	2,973	13	Dinajpur.
1,892	247	11	18	166	1,480	1,122	2,602	1,653	1,292	2,945	14	Jalpaiguri.
687	209	6	10	172	697	515	1,112	467	453	920	15	Darjeeling.
5,027	3	3	65	82	3,107	2,657	5,764	2,459	1,705	4,164	16	Rangpur.
1,363	14	2	91	107	952	797	1,749	952	748	1,700	17	Bogra.
1,432	4	1	77	102	1,013	767	1,780	1,598	965	2,563	18	Pabna.
1,508	3	1	58	152	976	791	1,767	1,119	824	1,943	19	Malda.
2,626	114	23	108	553	1,993	1,537	3,530	2,445	1,733	4,178	20	Dacca.
4,942	44	23	150	690	3,297	2,800	6,097	3,693	2,950	6,643	21	Mymensingh.
2,440	40	8	122	354	1,671	1,330	3,001	1,800	1,339	3,139	22	Faridpur.
3,016	31	4	143	764	2,261	1,843	4,104	1,830	1,396	3,226	23	Bakarganj.
4,707	49	8	66	87	2,624	2,828	5,452	2,209	2,319	4,528	24	Chittagong.
2,369	29	1	81	284	1,708	1,624	3,332	1,553	1,339	2,892	25	Noakhali.
3,593	87	11	120	451	2,430	1,991	4,421	2,220	1,660	3,880	26	Tippura.
registration.											27	Chittagong Hill Tracts.
70,038	1,465	310	2,270	7,941	46,199	40,893	86,592				...	
87,498	1,152	893	2,175	9,740	48,493	36,501	82,994	46,493	36,501	82,994		
+2,540	+318	-83	+95	-1,799	-294	+3,892	+3,598					

Civil Surgeons. Taken as a whole the table possesses a relative value, although the figures for individual districts probably only approximate those of the respective districts as per Government of Bengal, Municipal Department, order No. 1183an., dated the 8th February 1918. to the Government of India, Education Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Olroular and Eastern Canals for the week ending Saturday, the 11th October 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 11TH OCTOBER 1919.			WEEK ENDING SATURDAY, THE 15TH OCTOBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	368	30,690	526	1,002	129,350	2,135
Jute ...	252	132,197*	1,261	198	64,957†	766
Firewood ...	78	34,550	541	163	67,400	1,003
Other articles ...	880	198,617	2,063	999	204,745	2,203
Total ...	1,578	396,054	4,391	2,362	466,452	6,107
Empty boats and rafts ...	674	...	948	945	...	1,521
GRAND TOTAL ...	2,252	396,054	5,339	3,307	466,452	7,628

Mds.  
\* Weight by canal measurement ... 142,900  
† Ditto ditto ... 70,323‡

CALCUTTA,  
The 20th October 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Olroular and Eastern Canals for the week ending Saturday, the 18th October 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 18TH OCTOBER 1919.			WEEK ENDING SATURDAY, THE 19TH OCTOBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	428	36,830	601	809	111,930	1,913
Jute ...	338	161,066*	1,548	202	56,859†	717
Firewood ...	99	44,800	664	109	42,500	665
Other articles ...	813	188,540	1,961	802	150,504	1,811
Total ...	1,678	431,236	4,774	1,922	361,793	5,106
Empty boats and rafts ...	527	...	1,278	534	...	1,208
GRAND TOTAL ...	2,205	431,236	6,052	2,456	361,793	6,314

Mds.  
\* Weight by canal measurement ... 169,350  
† Ditto ditto ... 66,613‡

CALCUTTA,  
The 28th October 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**RESOLUTION ON THE REPORT OF THE BOARD OF  
REVENUE ON THE LAND REVENUE ADMINISTRATION OF  
THE PRESIDENCY OF BENGAL FOR THE YEAR ENDING  
31ST MARCH 1919.**

**GOVERNMENT OF BENGAL.**

**REVENUE DEPARTMENT.**

**Land Revenue Branch.**

**DARJEELING, THE 27TH OCTOBER 1919.**

**RESOLUTION—No. 2379T.R.**

**READ—**

The Report of the Board of Revenue on the Land Revenue Administration of the Presidency of Bengal for the year ending 31st March 1919.

THE Hon'ble Mr. C. J. Stevenson-Moore, c.v.o., was in charge of the office of the Member of the Board of Revenue throughout the year.

2. **General condition of the year.**—The year under report started not unfavourably. Though the prices of imported necessities and of cloth were high, the prices of foodstuffs were low and stocks were large, due both to the bumper harvest of the previous year and to the lack of facilities for exports during the war. This, on the other hand, gave cause for complaint. Later on in the year the situation took a turn for the worse. The general causes of this were four-fold. The rise in prices in other countries owing to the war, a rise which had resulted from the reduction in the production of the necessities of life in the combatant countries and from an inflation of currency, began at the close of the war to have a sympathetic effect on prices in India; the general failure of the monsoon throughout India led to actual famine in other provinces; the particular failure of the monsoon in Bengal produced a short crop of rice; and the outbreaks of influenza took a heavy toll of the people. In consequence of the first three causes, the prices of foodstuffs, including that of rice, rapidly rose. This rise was the more keenly felt by persons on small fixed incomes. Such prices did not, however, rise during the year—which ends on the 31st March—to the heights they subsequently attained in this province, or to those reached in other provinces, whilst they were prevented from rising to the heights obtaining in foreign countries by the restrictions placed on exports to those countries. Moreover, despite exports of rice to other provinces which were in worse straits than Bengal, there was no shortage of rice.

3. In particular areas the material condition of the people was also affected by certain visitations of nature. In the Rajshahi Division such a flood as had not occurred for half a century traversed the districts of Rajshahi, Dinajpur, Bogra and Pabna, causing much damage to crops, homesteads and cattle, particularly in the districts of Rajshahi and Bogra. Relief was, however, promptly rendered. A high and prolonged flood, followed by a long drought, in the subdivision of Brahmanbaria in the district of Tippera damaged the standing crops and delayed the transplantation of winter rice, with the result that relief measures had to be organised towards the end of the year. Floods in the districts of Dacca, Mymensingh and Faridpur affected the jute and rice crops, whilst the earthquake of the 8th July 1918 did a certain amount of damage in the eastern districts of the province. The failure of the crops in Bankura was so widespread that operations had to be started in that district for the relief of the distress which, subsequent to the year under report, developed into famine. Agriculturists' loans to the extent of 6½ lakhs were advanced during the year.



4. The end of the year under report, therefore, appears to have been unusually black, but it must be remembered that there were many districts which did not suffer from the peculiar visitations referred to in the last paragraph, and that persons engaged in trade and the cultivator with surplus stocks benefited by the rise in the price of foodstuffs. Moreover, it requires a minute examination of the report under review to discover the instances, which are few and far between, in which variations have occurred on account of the character of the year in the numerous statistics relating to the administration of land revenue, except in the areas officially declared to have been suffering from distress. The short collections of road and public works cesses in Jessore, Bogra, Bankura and Rajshahi are attributed to the bad agricultural conditions of these districts, but distress was officially declared in the latter three districts. The failure to attain the fixed percentage of the same collections in Tippera is ascribed in that district alone to the high price of the necessaries of life, an excuse which might have been put forward by every district in the presidency. On the other hand, in the Sundarbans in Bakarganj, although the rice crop was only 75 per cent. of the normal, the tenants in the Government estates paid cent. per cent. of the collections of rent, owing to the high prices they obtained for their rice. Further, during the year industries, with some exceptions, flourished. For instance, coal mines, jute mills and factories had an exceptionally busy year and gave employment to much labour; the local sugar industry in Jessore benefited by the restrictions on the supply of foreign sugar; in Dacca an attempt was made to revive the tanning industry; and ship-building continued in Chittagong.

5. **Land Revenue demand and collections.**—The current demand of the year amounted to Rs. 2,79,27,827, showing an increase of Rs. 70,927 over the previous year, due to new settlements and re-settlements and progressive increase of demands in temporarily-settled and Government estates. The collections amounted to Rs. 2,80,84,829, being 92·7 per cent. of the total and 100·5 per cent. of the current demand, against 91·9 and 97·9 per cent., respectively, in the previous year. The remission of revenue during the year amounted to Rs. 72,101. The total land revenue demand is slightly over one-fifth of the gross rental of the province.

6. **Road and Public Works cesses.**—The current demand on account of road and public works cesses showed an increase of Rs. 77,248, due to valuation and revaluation proceedings. The percentage of total collections on the current demand rose from 97·7 in 1917-18 to 98·7. Twelve districts against seven in the previous year attained the standard of 100 per cent. on the current demand. Valuations or re-valuations, partial or complete, were made in 14 out of the 25 districts in which the Act is in force, and were completed in seven. Revaluations conducted by the Settlement Department were in progress in Rajshahi and Noakhali, and revaluations under the ordinary procedure were in progress in the districts of the 24-Parganas, Midnapore, Mymensingh and Bakarganj. It is remarkable that the increase in the current demand referred to above was mainly due to revaluation proceedings in the district of Rajshahi, conducted on the basis of the record-of-rights by the Settlement Department. That this resulted in the demand in that district being raised from Rs. 2,36,355 to Rs. 3,02,292 is entirely due to the accuracy of that basis.

7. **Revenue and Cess money-orders.**—As compared with the previous year there was a slight increase in the number of money-orders for the remittance of land revenue and cesses and in the amount covered by them, viz., 230,203 and Rs. 20,54,538, respectively, against 226,206 and Rs. 20,07,860 in 1917-18.

8. **Coercive measures.**—The number of estates which defaulted in the payment of land revenue and became liable to sale was 14,718, or 1,445 more than in the previous year. Only 1,319 estates against 1,019 estates in 1917-18 were actually sold. The percentage of sales to defaults is slightly more than in 1917-18, but practically the same as in 1915-16 and in 1916-17. The largest number of defaults were in the districts of Chittagong, Midnapore and Dacca and the sales were proportionately most numerous in the



24-Parganas, Jalpaiguri and Hooghly. The number of certificates filed, including those for cess, was 114,089 against 100,943 in the preceding year, and the number pending at the close of the year was 36,036 against 28,986 of 1917-18. In the majority of cases payments were made on the issue of notices or on attachment of property. Actual sale became necessary only in 4,723 cases, or 4·4 per cent. of 107,036 cases disposed of during the year.

9. **Government estates.**—The total number of estates under direct management, including those of private individuals managed by Government, was 2,387, with an annual demand of Rs. 43,87,096. Rupees 1,76,969 were spent on miscellaneous and sanitary improvements, Rs. 59,257 out of this amount being spent on drainage, embankment and irrigation. The expenditure on roads and communications was Rs. 3,18,756, of which Rs. 76,489 were given by Government and the balance was provided from District Board and other funds. There were 2,404 schools attended by 77,077 pupils in Government estates. The expenditure on education amounted to Rs. 81,451, of which Government contributed Rs. 50,993, the balance being met from local funds.

10. **Waste lands.**—The rules for the grant of waste land leases to large capitalists remained in abeyance in the 24-Parganas and Khulna portions of the Sundarbans. Raiyatwari settlements on the lines of the Bakarganj colonisation scheme were being made in certain Sundarbans lots in the 24-Parganas. The progress of reclamation in the Bakarganj portion of the Sundarbans was satisfactory.

11. **Drainage, Embankment and Irrigation.**—The work of draining the Manikhal basin in the 24-Parganas at an estimated cost of Rs. 1,83,481 was undertaken during the year. Three anti-malarial projects, viz., the Nawi Sunthi project in the 24-Parganas, the Arul bhil project in Jessore and the Jabuna project in the 24-Parganas, Nadia and Jessore, were undertaken by the District Boards. A total contribution of Rs. 4,25,000 has been made by Government towards the cost of these projects. The Banka anti-malarial drainage project in the Burdwan Division and the work of silt clearance of Srichandra khal in the Presidency Division were completed. Two large projects for the improvement of the drainage of the Contai subdivision were sanctioned. A scheme for improving the Amta basin in the district of Howrah under the Sanitary Drainage Act at an estimated cost of 9 lakhs of rupees has been sanctioned. The Damodar reservoir enquiry survey is in progress under a special officer.

12. **Partitions.**—Forty-six cases were instituted during the year and 285 cases were pending at the end of the previous year. Of these 79 cases were disposed of and 252 remained pending.

13. **Working of the Bengal Tenancy Act.**—The Bengal Tenancy Act was amended during the year so as to make it illegal for a landlord to realise more road or public works cess from his tenants than is warranted by the Cess Act. The levy, however, of *abwabs* or illegal cesses by the landlords, and the failure to grant rent receipts still continues to prevail. There was an increase in the number of rent money-orders issued and in the amount covered by them. The percentage of money-orders refused by landlords to money-orders sent fell from 16·7 to 16·3. The Bill relating to the transferability of occupancy holdings generally, which was under consideration, has been dropped, as it does not appear that there is any real demand at present for such legislation.

14. The thanks of the Governor in Council are due to the Board for its efficient administration of the Land Revenue Department.

By order of the Governor in Council,

M. C. McALPIN,  
Secy. to the Govt. of Bengal.



**Statement showing the gauge-readings at Dacca Water-works Station  
on the river Buriganga for the week ending the 11th October 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
5th Oct.	63.2	...	...	...	...	63.2	
6th "	63.15	...	...	...	...	63.1	
7th "	63.0	...	...	...	...	63.0	
8th "	62.9	...	...	...	...	62.9	
9th "	63.0	...	...	...	...	63.0	
10th "	63.1	...	...	...	...	63.15	
11th "	63.2	...	...	...	...	63.3	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.88	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	Taken at low tide.
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.80	
15th "	1916	...	...	...	50.60	
8rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 13th October 1919.

W. J. KERR,  
Executive Engr., Dacca Division.

**Statement of weekly gauge-readings on the rivers Ganges and  
Brahmaputra for the week ending 18th October 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above in An sea-level on same date last year.	Remarks.
1919.					
12th October...	7 A.M.	19.3	19.3	16.0	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
13th "	7 "	19.6	19.6	15.8	
14th "	7 "	19.8	19.8	15.3	
15th "	7 "	19.8	19.8	14.8	
16th "	7 "	19.7	19.7	14.4	
17th "	7 "	19.6	19.6	14.1	
18th "	7 "	19.3	19.3	13.8	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 21st August 1899.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	26.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 18th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	...	3.16 on 16th, 17th and 28th to 31st March 1901.

FARIDPUR,  
The 20th October 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur.  
Boalia for the week ending the 18th October 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea- level according to P. W. D. datum.(a)	Height of surface above mean sea- level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
12th October ...	8 A.M.	Zero of gauge is at mean sea level.	51.40	47.11	B. M. on College step corrected, 64.93.
13th " ...	8 "		51.70	46.91	
14th " ...	8 "		51.40	46.51	
15th " ...	8 "		50.90	46.31	
16th " ...	8 "		50.40	46.01	
17th " ...	8 "		49.90	45.81	
18th " ...	8 "		49.40	45.61	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

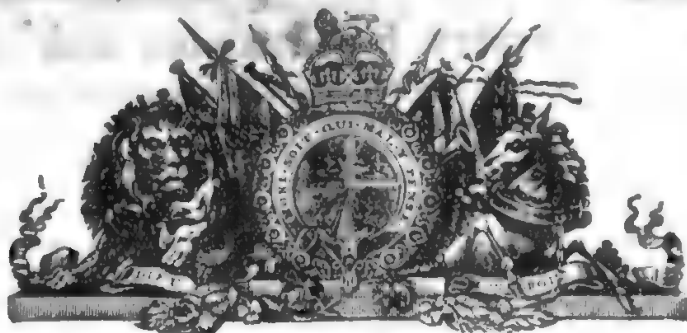
			Old value.	According to P. W. D. datum.
The previous year ...	Highest water-level ...	66.52 on 30th August 1918	...	61.71
Ditto ...	Lowest " ...	41.70 on 21 t April 1918	...	36.85
Record ...	Highest " ...	69.25 on 26th August 1879	...	64.44
Do. ...	Ditto " ...	69.08 on 8th September 1885	...	64.27
Do. ...	Ditto " ...	68.30 on 25th August 1906	...	63.47
Do. ...	Ditto " ...	68.21 on 26th August 1890	...	63.40
Do. ...	Lowest " ...	37.63 on 25th April 1884	...	32.82
Do. ...	Ditto " ...	38.13 on 14th-15th April 1883	...	33.32
Do. ...	Ditto " ...	39.02 on 21st-22nd April 1897	...	34.21
Do. ...	Ditto " ...	39.28 on 6th-7th May 1908	...	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,  
The 18th October 1919.

S. C. BHATTACHARJI,  
for Executive Engineer, Rajshahi Divn.





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 5, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## REPORT ON FAMINE IN THE DISTRICT OF BANKURA FOR THE WEEK ENDING 25TH OCTOBER 1919.

There was no rainfall during the week. The agricultural prospects are favourable, but paddy on high land has suffered for want of rain. The relief works were closed during the week as there is now practically no distress. The number of persons in receipt of special relief was 557, viz., 555 weavers and 2 better class poor. The charitable societies relieved 400 persons by daily doles. During the week three cases of theft of paddy were reported. Public health is on the whole good. Outbreak of malaria is reported. The price of common rice varies from 5 to 5½ seers in the rupee. Burma rice is being sold.

M. C. McALPIN.

Secy. to the Govt. of Bengal.

DARJEELING, the 30th October 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 30th October 1919.

**Summary.**—The rainfall was generally light excepting in northern Bengal, where there was almost no rain during the week. More rain is needed for winter paddy, especially in certain western districts. Ploughing for and sowing of spring crops continue. Harvesting of the early variety of winter paddy is proceeding. Prospects of standing crops are generally satisfactory. The average price of common rice for the province has fallen by about 3·12 per cent. as compared with that of the previous week. One thousand nine hundred and fifty persons received gratuitous relief in the Brahmanbaria sub-division of Tippera district. The conditions in Bankura are published separately.

Serial No.	District and sub-division.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER MUPPE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	0·01	{ 4 <sup>0</sup> / <sub>16</sub> 6 <sup>3</sup> / <sub>8</sub> }	{ 5 6 <sup>3</sup> / <sub>8</sub> }	Steeping of jute still continues. <i>Rabi</i> crops are being sown. Water is sufficient.
	Diamond Harbour.	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Barrackpore	Nil	{ 4 <sup>3</sup> / <sub>4</sub> 6 <sup>3</sup> / <sub>8</sub> }	{ 4 <sup>3</sup> / <sub>4</sub> 6 <sup>3</sup> / <sub>8</sub> }	
	Barasat ...	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	
	Basirhat ...	0·29	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>8</sub> }	{ (n) (n) }	
2	NADIA ...	Nil	{ 5 <sup>5</sup> / <sub>16</sub> 6 <sup>1</sup> / <sub>2</sub> }	{ 5 6 <sup>1</sup> / <sub>2</sub> }	Prospects of standing crops are fair. Rain is badly wanted for winter paddy. Washing of jute and sowing of <i>rabi</i> crops continue. Cattle disease is reported from Chakda and Chapra thanas.
	Kushtia ...	0·17	{ 5 7 <sup>3</sup> / <sub>8</sub> }	{ (n) (n) }	
	Meherpur ...	0·15	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 6 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Chuadanga ...	0·05	{ 5 5 <sup>1</sup> / <sub>2</sub> }	{ (n) (n) }	
	Ranaghat ...	0·10	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>8</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>8</sub> }	
3	MURSHIDABAD	0·40	{ 4 <sup>1</sup> / <sub>2</sub> to 4 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> }	Prospects of standing crops are fair. Last rain greatly benefited <i>aman</i> paddy, but more rain is wanted in some parts. Burma rice is not available. Sowing of <i>rabi</i> crops continues. Fodder is sufficient. No large import or export. Cattle disease is reported from Murshidabad thana.
	Lalbagh ...	0·05	{ 5 <sup>1</sup> / <sub>2</sub> to 6 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> }	
	Jangipur ...	0·17	{ 5 <sup>1</sup> / <sub>2</sub> }	{ (n) }	
	Kandi ...	(n)	{ (n) }	{ 5 <sup>1</sup> / <sub>2</sub> }	
4	JESSORE ...	0·80	{ 6 6 <sup>3</sup> / <sub>8</sub> }	{ 5 6 <sup>3</sup> / <sub>8</sub> }	Standing crops are doing well. <i>Rabi</i> crops are being sown. Prospects favourable. Some damage has been done to winter rice by recent cyclone in parts of Narail sub-division. Export of rice is reported from Bangaon and Jhenidah sub-divisions. Fodder is sufficient.
	Jhenidah ...	0·53	{ 5 4 <sup>1</sup> / <sub>2</sub> }	{ 5 4 <sup>1</sup> / <sub>2</sub> }	
	Magura ...	0·05	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	
	Narail ...	0·25	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Bungaon ...	0·08	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
5	KHULNA ...	0·53	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>8</sub> }	Harvesting of early <i>aman</i> is going on in Satkhira sub-division. No cattle disease is reported, but cattle are dying from bad fodder due to cyclone, and to want of good drinking water, in Syamnagar and Pratapnagar.
	Satkhira ...	0·21	{ 5 <sup>3</sup> / <sub>8</sub> 5 <sup>3</sup> / <sub>8</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Bagerhat ...	0·16	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>3</sup> / <sub>8</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
6	BURDWAN ...	0·30	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	Weather cool. Prospects of winter paddy are excellent in Asansol, fair in Katwa, and bad in Sadar and Kalna sub-divisions. Harvesting of early <i>aman</i> paddy has commenced. Sowing of <i>rabi</i> crops is retarded for want of moisture. Stocks of rice in Asansol are insufficient.
	Asansol ...	1·50	{ 5 4 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	
	Katwa ...	1·07	{ 5 4 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	
	Kalna ...	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 4 <sup>1</sup> / <sub>2</sub> }	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SEKHS, PER RUPEE.		Character of the weather condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
7	BIRBHUM ...	Inches 1'00	5½	5½	Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	0'40	5½	5½	
8	BANKURA ...	Nil	5	5 6*	Rain is wanted for winter paddy. Export of rice and paddy is going on. Reaping of <i>aus</i> paddy and early <i>aman</i> paddy continues.
	Vishnupur...	Nil	5½	5½	
9	MIDNAPORE	Nil	{ 4½ 5½ 5½† 6½	{ 4½ 5½† 5½† 6½	Prospects of standing crops are fair, excepting in Contai subdivision where crops are withering owing to drought. Sowings of summer rice, tobacco and linseed continue. Cattle disease is reported from Contai and Salboni thanas.
	Ghatal ...	1'52	{ 4½ 5½	{ 5 5½† 5½†	
	Tamluk ...	Nil	{ 4½ 5½† 5½†	{ 5 5½† 6½	
	Contai ..	0'03	{ 5 5½† 5½†	{ 5 5½†	
			{ 4½ 5½ to	{ 4½ 5½ to	
10	HOOGHLY ...	0'07	{ 5½ to 6½	{ 5½ to 6½	Effects of weather on the growth of the crops are unfavourable. Fodder is sufficient. More rain needed. Price of rice is rising at Sadar.
	Serampore ...	0'04	{ 4½ 6	{ 4½ 0*	
	Arambagh ...	0'55	{ 5½ 4½	{ 5½ 4½	
11	HOWRAH ...	0'30	{ 4½ 6½	{ 4½ 6½	Weather cool. Lands are being ploughed for winter vegetables. More rain is wanted. Fodder is sufficient.
	Ulubaria ..	0'25	{ 4½ 6	{ 4½ 6	
12	RAJSHAHI (RAMPUR-BOALIA).	0'02	{ 4½ 5½	{ 4½ 5½	Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops continues. Fodder is sufficient.
	Naogaon ...	0'08	{ 3½ 5½	{ 3½ 5½	
	Nator ...	0'13	{ 4½ 5½	{ 4½ 5½	
13	DINAJPUR ...	Nil	4½	{ 4½ 6*	Rain is wanted for the growth of winter paddy. Rice market is stationary. Export of paddy and rice is going on.
	Thakurgaon	Nil	5	5	
	Balurghat ...	Nil	4½	4	
14	JALPAIGURI...	Nil	{ 4 5½*	{ 4 5½*	Prospects of standing crops are fair. Fodder and water are sufficient. Cattle disease is prevalent in the town and its suburbs.
	Alipur ...	Nil	{ 4 6*	{ 4 6*	
15	DARJEELING	Nil	{ 4½ 5½*	{ 4½ 5½*	Potatoes, maize and cardamom are being harvested. <i>Marua</i> and paddy are progressing. Transplantation of winter rice is over. Stock of ordinary rice is insufficient and that of Burma rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	{ 5½ 5½*	{ 5½ 5½*	
	Siliguri ...	Nil	{ 4½ 6*	{ 4½ 6*	
	Kalimpong...	Nil	{ 4½ 5½*	{ 4½ 5½*	

\*Burma rice.

† Coarse rice.

‡ Aus rice.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
16	RANGPUR ...	Inches Nil	{ 4½ 5° }	4½	Weather seasonable. Steeping of jute is nearly finished. Sowing of <i>rabi</i> crops has commenced in certain places. Prospects of standing crops are good. Price of rice is stationary. Fodder and water are sufficient. Cattle disease is reported from Gaibandha and Nilphamari thanas.
	Nilphamari	Nil	{ 4½ 5° }	4½	
	Kurigram ...	Nil	{ 4½ 5° }	4½	
	Gaibandha ...	Nil	{ 4½ 5° }	3½ 5½	
17	BOGRA ...	0·01	{ 4½ 5½ to 5¾° }	4½ 5¾°	Prospects are fair. Lands are being prepared for <i>rabi</i> crops.
18	PABNA ...	0·48	{ 4½ 5½° }	5 5½°	Prospects of standing crops are good. Fodder is sufficient.
	Sirajganj ...	Nil	{ 3½ 5½° }	(n)	
19	MALDA ...	Nil	{ 5 6½° }	5 6½°	Sowing of <i>rabi</i> crops has commenced. Rain is wanted for winter paddy. Cattle-disease is reported from Bholahat thana. Fodder and water are sufficient.
20	COOCH BEHAR	Nil	7½	7½	Weather seasonable. Sowing of mustard seed and transplantation of tobacco seedlings have commenced. Washing of jute continues. Fodder is sufficient. Burma rice is not available.
21	DACCA ...	0·83	4½	{ 3½ 5½° }	Weather seasonable. Prospects of winter rice are fair. Harvesting of early <i>aman</i> is in progress. Condition of cattle is good. Fodder and water are sufficient.
	Manikganj ...	(n)	(n)	{ 4½ 5° }	
	Narayanganj	(n)	(n)	(n)	
	Munshiganj (a)	(n)	(n)	(n)	
22	MYMENSINGH	0·11	{ 3½ 5½° }	3½ 5½°	Weather seasonable. Sowing of <i>rabi</i> crops continues. Harvesting of jute is finished. Steeping is going on in places. Prospects of crops are fair. Fodder and water are sufficient.
	Jamalpur ..	Nil	{ 3½ 5½° }	3½ 5½°	
	Tangail ...	Nil	{ 3½ 5½° }	3½ 5½°	
	Netrakona ...	0·58	{ 3½ 5½° }	3½ 5½°	
	Kishorganj...	1·18	{ 4½ 4½° }	3½ 5°	

(n) Not reported.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.

\* Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	0·06	{ 4½ 5½*	{ 4 5½*	Effects of weather on the growth of the crops are favourable. Early variety of <i>aman</i> paddy is being harvested. Prospects of standing crops are fair. Fodder is available. Prices of rice are falling.
	Goalundo ...	0·07	{ 4½ 5½*	{ 4½ 5½*	
	Madaripur ...	2·31	{ 5 5½*	{ 4 5½*	
	Gopalganj(a)	0·09	{ 5 6*	{ 4½ 5½*	
24	BAKARGANJ (BARISAL).	1·53	{ 4 6½*	{ 3½ 4½ 6*	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	0·65	{ 4	{ 3½	
	Patuakhali ...	1·16	{ 4½ 5½† 6*	{ 4 5½ 6*	
	Dakshin Shabazpur (Bhola).	1·80	{ 3½ 3½†	{ 3½ 3½†	
25	CHITTAGONG	0·93	{ 5† 6*	{ 5† 6*	Cultivation of <i>rabi</i> crops is in progress. Prospects of standing crops are good. <i>Panga</i> salt is selling at 8½ and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	1·31	{ 5½† 6*	{ 5† 6*	
26	TIPPERA (COMILLA).	0·05	{ 5½ 6*	{ 5 5½*	Prospects of <i>aman</i> paddy are good. Harvesting of <i>parang</i> and one variety of <i>aman</i> , namely <i>asmila</i> , has commenced in some places. Ploughing for and sowing of <i>rabi</i> crops are going on. Price of rice is falling: 1,950 persons received gratuitous relief in Brahmanbaria subdivision
	Brahmanbaria.	0·51	{ 4½ 5½*	{ 5½ 5½*	
	Chandpur ...	0·94	{ 5 5½*	{ 4½ 5½*	
27	NOAKHALI ...	0·64	{ 4½	{ 4½	Prospects of crops are not hopeful owing to damage in places caused by <i>ufra</i> . Fodder is sufficient.
	Feni ...	0·31	{ 6	{ 5	
28	CHITTAGONG HILL TRACTS.	1·25	{ 5½ 7† 5*	{ 6 7† 5*	Prospects of <i>aman</i> paddy are fair. Harvesting of <i>jhum</i> paddy is nearly finished. Outturn is fair. Harvesting of cotton crop has begun. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
 \* Burma rice. † Local rice. ‡ *Assam* rice.

J. C. Roy,  
 for Director of Agriculture, Bengal.

DACCA, the 3rd November 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of October 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1916.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 10 0	4 10 0	3 4 0	3 0 0	3 8 0	3 14 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 14 0	4 14 0	2 6 0	2 2 0	3 12 0	3 14 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 12 0	4 8 0	2 12 0	2 4 0	2 12 0	3 10 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 4 0	5 12 0	2 12 0	3 0 0	3 8 0	4 2 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 8 0	5 0 0	3 0 0	2 12 0	3 5 0	3 8 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 12 0	5 12 0	2 8 0	2 14 0	2 12 0	3 6 0	...

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1916.	Corresponding return of 1914.
	9	10	11	12	13	14	15 \
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 12 0	2 0 0	3 4 0	3 8 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 12 0	4 2 0	2 5 0	2 0 0	3 4 0	3 8 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 10 0	4 4 0	2 8 0	1 14 0	2 10 0	3 4 0	...
Chittagong ...	(c)	(c)	(c)	...	...	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 12 0	5 14 0	2 10 0	2 12 0	3 0 0	3 14 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 10 0	4 12 0	2 12 0	2 8 0	3 0 0	3 3 0	3 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	5 0 0	2 4 0	2 8 0	3 0 0	2 4 0	3 4 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of October 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 8 0	9 8 0	7 8 0	7 0 0	7 14 0	8 0 0	7 8 0
Obelia Hât							
Burdwan	8 10 0	8 4 0	8 4 0	6 0 0	9 0 0	8 8 0	8 12 0
Kalna							
Raniganj							
Midnapore	9 8 0	9 0 0	8 8 0	5 0 0	6 0 0	7 8 0	6 8 0
Chittagong	12 0 0	13 0 0	8 8 0	7 0 0	9 0 0	10 0 0	8 0 0
Ohandpur							
Dacca	10 10 0	12 8 0	6 12 0	5 10 0	6 8 0	7 8 0	6 8 0
Narayanganj							
Mymensingh							
Madaripur							
Pabna	10 0 0	10 8 0	6 0 0	7 8 0	7 8 0	8 12 0	8 0 0
Birajganj							
Rangpur	12 8 0	12 8 0	6 4 0	6 8 0	7 4 0	7 10 0	7 12 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 0 0	8 0 0	5 12 0	5 4 0	6 3 0	7 4 0	6 4 0
Obelia Hât							
Burdwan	7 14 0	7 8 0	4 12 0	3 14 0	5 0 0	5 8 0	5 0 0
Kalna							
Raniganj							
Midnapore	8 0 0	8 0 0	5 0 0	4 2 0	5 0 0	6 4 0	4 10 0
Chittagong	8 0 0	8 0 0	5 0 0	4 4 0	5 4 0	6 8 0	5 8 0
Ohandpur							
Dacca	10 0 0	11 0 0	6 4 0	5 8 0	6 0 0	7 0 0	5 8 0
Narayanganj							
Mymensingh							
Madaripur							
Pabna	7 14 0	9 4 0	4 8 0	4 10 0	5 8 0	6 3 0	5 4 0
Birajganj							
Rangpur	10 12 0	10 12 0	5 0 0	5 0 0	5 12 0	7 0 0	6 8 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of October 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	7 8 0	8 0 0	4 5 0	5 0 0	4 10 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 4 0	7 8 0	(a)	8 4 0	5 0 0	5 12 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 0 0	8 8 0	5 12 0	4 10 0 to 4 12 0	5 12 0	...
Ohittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	5 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 0 0	7 0 0	...	4 0 0	...	4 12 0	3 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	7 8 0	...	8 8 0	8 0 0	5 8 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 8 0	8 8 0	9 0 0	8 0 0	5 6 0	5 12 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	10 0 0	8 8 0	4 8 0	5 10 0	6 6 0	...
Kalna ...	...	...	...	...	...	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0 to 11 0 0	10 0 0 to 11 0 0	8 8 0 to 11 0 0	5 12 0	4 4 0	4 8 0	...
Ohittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	6 8 0	7 0 0	7 8 0	8 2 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of October 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	3 8 0	3 8 0	3 14 0	4 8 0
Chota Bhat ...	...	...	...	...	...	...	...
Burdwan ...	6 12 0	7 0 0	5 8 0	3 8 0	3 12 0	4 10 0	5 8 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0 to 8 8 0	8 0 0 to 8 8 0	5 8 0 to 7 0 0	4 8 0	3 14 0 to 4 2 0	4 12 0	...
Chittagong ...	8 0 0	5 12 0	5 8 0	4 8 0	5 8 0	5 8 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	8 0 0	6 8 0	7 10 0	7 0 0	...

Marts.	ANJUR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	6 12 0	6 0 0	5 4 0	6 8 0	8 8 0
Chota Bhat ...	...	...	...	...	...	...	...
Burdwan ...	9 12 0	10 8 0	7 4 0	4 7 0	6 0 0	6 0 0	6 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 0 0 to 12 0 0	11 8 0 to 12 8 0	8 0 0	5 0 0 to 6 8 0	5 4 0 to 7 0 0	6 12 0	...
Chittagong ...	12 8 0	13 0 0	7 0 0	6 8 0	7 0 0	7 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 0 0	12 12 0	7 12 0	8 8 0	6 0 0	7 8 0	8 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	13 8 0	13 8 0	7 0 0	6 0 0	8 0 0	8 11 0	6 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a) ...	(a) ...	6 8 0	7 0 0	7 8 0	6 12 0	8 4 0

(a) Not available.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of October 1919.**

Marts.	LINSEED.			MUSTARD.			GUB.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	69	69	69	61	62	63	64	65	65	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	13 8 0	13 8 0	7 8 0	11 8 0	11 8 0	8 8 0	8 8 0	7 12 0	8 8 0	25 0 0	25 0 0	40 0 0
Chetla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	11 0 0 to 12 0 0	9 0 0 to 10 0 0	.....	12 0 0 to 14 0 0	13 0 0 to 14 8 0	10 0 0	8 0 0	7 0 0	11 0 0	(a).....	(a).....	(a).....
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	7 0 0	10 0 0	8 8 0	14 4 8 to 16 0 0	14 12 0 to 16 12 0	10 8 0 to 11 12 0	10 8 0	9 8 0	8 8 0	40 0 0	40 0 0	50 0 0
Obitlagong	15 0 0	15 0 0	10 0 0	14 0 0	14 0 0	10 0 0	12 0 0	13 0 0	8 8 0	(b).....	(b).....	(b).....
Ohandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	15 0 0	12 4 0	8 8 0	13 0 0	13 0 0	10 4 0	14 12 0	14 12 0	11 0 0	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	15 0 0	15 0 0	7 0 0	14 10 0	14 10 0	9 8 0	10 10 0	10 10 0	8 0 0	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	.....	.....	.....	14 8 0	14 8 0	7 8 0	13 0 0	13 0 0	7 8 0	.....	.....	.....

Marts.	JUTE.			GHER.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	10 0 0	12 0 0	78 0 0	78 0 0	72 0 0	450 0 0	Per 100 pieces. 450 0 0	450 0 0
Chetla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	(a).....	74 0 0	74 0 0	68 0 0	(a).....	(a).....	40 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	6 8 0	8 8 0	8 0 0	80 0 0 to 88 0 0	80 0 0 to 88 0 0	75 0 0 to 80 0 0	400 0 0	Cleaned pieces per 100. 400 0 0	225 0 0
Obitlagong	.....	.....	.....	88 0 0	82 0 0	70 0 0	375 0 0	Uncleaned pieces per 100. 375 0 0	200 0 0
Ohandpur	to 13 8 0	to 12 8 0	to 13 0 0	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	78 0 0	80 0 0	68 0 0	.....	.....	.....
Narayanganj	4 8 0 to 12 0 0	7 8 0 to 14 0 0	10 0 0 to 13 4 0	.....	.....	.....	.....	.....	.....
Mymensingh	7 0 0 to 16 0 0	7 0 0 to 16 0 0	8 0 0 to 11 0 0	.....	.....	.....	.....	.....	.....
Madaripur	8 0 0 to 12 0 0	8 0 0 to 11 0 0	8 0 0 to 11 0 0	.....	.....	.....	.....	.....	.....
Pabna	.....	.....	.....	80 0 0	80 0 0	80 0 0	.....	.....	.....
Sirajganj	to 8 0 0	7 0 0 to 9 0 0	8 0 0 to 10 0 0	.....	.....	.....	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0
Rangpur	8 8 0	8 0 0	8 0 0	75 0 0	75 0 0	60 0 0	.....	.....	.....

(a) Not available.

(b) None.



**Wholesale prices-current of food-grains, salt, &c., in the under-mentioned marts of Bengal for the first-half of October 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	9 0 0	25 0 0	3 7 0	3 7 0	3 12 0	3 12 0(a)	3 15 0(a)	3 2 0
Chota Hat.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bardwan	14 0 0	11 0 0	25 0 0 to 35 0 0	3 8 0	3 4 0(R)	3 4 0	3 2 0(b)	3 2 0(b)	4 1 9
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baiganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	3 0 0 to 12 4 0	3 0 0 to 12 8 0	3 0 0 to 24 0 0	3 10 0	3 10 0	4 2 0	4 0 0(b)	4 0 0(b)	4 3 0
Chittagong	18 0 0	20 0 0	29 0 0	4 4 0	3 8 0	3 8 0	3 0 0	3 0 0	2 4 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	4 8 0	4 12 0	4 4 0	4 2 0(d)	4 1 3(d)	4 12 0
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nymedigh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fabna	16 0 0 to 18 0 0	16 0 0 to 18 0 0	24 0 0	4 0 0	4 0 0	4 4 0	4 3 0	4 3 0(R)	4 4 0
Birgaonj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Asanspur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 6 0	4 4 0(A)	4 4 0(A)	4 8 0

(R) Revised. | (a) Monkey brand. | (b) Biting Sun. | (d) Elephant. | (A) Gold Mohur.

Marts.	MUSTARD OIL.			PINEWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	33 0 0	33 0 0	25 0 0	0 8 0	0 8 0	1 0 0	.....	.....	.....
Chota Hat.	.....	.....	.....	.....	.....	.....	0 8 0	0 8 0	0 8 0
Bardwan	34 8 0	35 0 0	25 8 0	0 8 0	0 7 0	0 9 0	0 7 0	0 7 0	0 8 0
Kalna	.....	.....	.....	.....	.....	.....	0 9 0	0 9 0	0 8 0
Baiganj	.....	.....	.....	.....	.....	.....	0 1 9	0 1 8	0 3 3
Midnapore	30 0 0 to 38 0 0	30 0 0 to 39 0 0	26 0 0 to 30 0 0	0 7 0	0 7 0	0 7 0	.....	.....	.....
Chittagong	42 0 0	42 0 0	30 0 0	.....	.....	.....	.....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	40 0 0	42 0 0	29 0 0	.....	.....	.....	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nymedigh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fabna	43 0 0	43 0 0	28 0 0	.....	.....	.....	.....	.....	.....
Birgaonj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Asanspur	41 0 0	41 0 0	30 0 0	.....	.....	.....	.....	.....	.....

(R) Revised.

DACCA,  
The 30th October 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of October 1919.**

DIVISION.	Number.	DISTRICTS AND MANTE.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR THUR, CADJAN P'EA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
PRESIDENCY.	1	24-PARAGANAM.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
		Chella Hât ...	4 9	4 9	7 3	4 9	5 0	3 0	4 0	4 0	4 9	4 0	4 0	5 6	10 10	10 11	9 2
		Magra Hât ...	4 12	5 0	8 0	5 0	3 4	3 6	(a)	(a)	...	3 6	3 6	5 5	10 12	10 12	10 0
	3	Calcutta-Bellaghata	4 12	4 12	6 12	5 6	6 6	8 0	4 7	4 7	4 6	4 0	4 0	5 14	10 9	10 0	10 0
		NADIA.															
		Gouri ...	5 0	5 0	7 3	6 0	6 0	8 0	3 2	3 5	3 8	3 3	3 5	5 5	11 10*	11 9*	10 10
	5	Ranaghat ...	4 5	4 6	7 0	6 0	6 6	8 0	3 2	3 2	5 4	3 3	3 3	5 4	10 8*	10 8*	9 6
		MUMSHIDABAD.															
		Berhampur ...	4 3	4 12	6 3	4 12	5 0	5 12	4 0	4 0	3 4	4 0	4 0	6 3	13 0*	13 0*	10 0
	6	Kandi ...	4 14	5 0	9 12	5 0	5 6	10 0	3 4	3 4	4 0	5 12	4 0	6 3	10 8	10 12	10 0
		Jangipur ...	5 12	5 5	8 6	6 0	5 10	9 0	3 2	3 2	...	3 2	3 2	7 0	13 0	13 0	9 6
		JESSORE.															
	9	Sadar ...	4 14	5 0	10 9	5 0	5 5	12 0	2 4	3 0	5 2	3 0	3 4	6 0	11 4	11 3	10 0
		Bangaon ...	4 0	4 2	8 0	5 0	5 11	10 0	2 11	2 11	4 0	3 3	3 3	5 5	11 4	11 4	9 3
	11	KHULNA.															
		Sadar ...	4 5	4 5	6 0	4 5	4 5	8 12	3 0	3 5	6 3	3 0	3 0	6 3	9 0	9 0	9 0
		Bagerhat ...	4 5	4 5	7 0	5 5	5 5	9 0	5 0	5 0	5 4	3 10	3 10	5 4	9 0	9 0	9 0
	13	BURDWAN.															
		Sadar ...	4 10	4 14	5 3	5 0	5 4	9 0	4 2	4 0	4 12	4 0	4 0	5 5	10 3*	(R) 11 4	9 0
		Kalna ...	4 2	4 10	5 0	4 10	5 0	8 7	3 10	3 3	4 0	3 5	3 5	5 0	11 5	(R) 11 6	10 0
	15	BIRBHUM.															
		Suri ...	5 0	4 3	7 3	5 4	5 4	8 3	4 5	4 0	4 5	3 0	3 0	5 0	9 0*	9 0*	9 0
		Rampur Hât ...	5 4	5 0	8 0	6 0	5 4	8 3	4 0	4 0	4 0	2 0	3 0	6 0	11 0	11 0	11 0
SADWAS.	17	BANKURA.															
		Sadar ...	4 12	4 14	7 0	5 2	5 0	7 3	5 4	6 8	3 5	4 0	4 0	5 0	10 9	12 3	10 3
		Vishnupur ...	5 2	5 12	8 0	5 12	6 4	9 3	4 2	5 0	5 3	2 6	3 3	5 0	10 9	10 0	9 0
	19	MIDNAPORE.															
		Sadar ...	5 0	5 0	8 1	5 6	5 6	8 6	3 4	3 4	4 0	3 4	3 4	4 0	10 0	10 0	8 0
		Contai ...	5 0	6 0	10 0	5 4	6 4	11 0	3 0	3 0	7 0	3 0	3 0	7 0	9 0	9 3	9 0
	21	HOOGHLY.															
		Sadar ...	4 5	4 5	7 3	5 0	5 0	5 3	4 0	4 0	4 2	3 3	4 0	6 0	10 2	10 4	9 0
		Arambagh ...	5 12	5 12	9 3	5 14	5 14	10 0	3 4	3 4	4 0	3 4	3 4	5 0	10 10	10 10	9 0
	23	HOWDAH.															
		Sadar ...	5 0	4 12	7 3	5 6	5 4	8 6	4 5	4 3	4 4	4 4	4 0	5 0	11 0	10 12	10 0
		Ulubaria ...	4 4	4 4	8 0	4 6	4 2	9 0	4 0	4 0	4 0	3 10	3 10	4 3	11 5	11 3	9 3
RAJSHAH.	25	RAJSHAH.															
		Rampur-Boalla ...	4 14	4 2	7 2	5 0	4 4	8 4	4 0	3 4	4 0	3 6	3 4	5 4	9 12*	9 12*	9 12
		Nator ...	4 14	4 2	7 3	5 4	4 3	8 0	4 0	4 0	5 0	4 0	4 0	7 14	9 3	9 3	8 0
		Dinajpur-Railway Bazar Hât.	4 3	4 12	8 6	4 12	5 0	9 0	3 12	3 12	5 6	3 2	3 2	6 0	10 0	10 0	8 0
RAJSHAH.	28	Jalpalguri-Sadar ...	3 3	3 3	7 3	4 5	4 0	8 3	4 0	4 0	5 6	3 3	3 3	6 0	9 0	9 0	8 0

\* Karkatch.

(a) Not available.

(b) Revised.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of October 1919—concl'd.**

Division.	Districts and Manths.	QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TUR, CADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
Number.		S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
RAJSHAH.	DANESHING.															
	29 Sadar ...	3 0	3 0	6	4 0	4 0	7 0	2 12	2 12	4 0	2 12	2 12	4 0	2 0	2 0	6 8
	30 Siliguri ...	3 8	3 4	8 8	4 8	3 12	9 0	3 8	3 8	5 0	3 8	3 8	5 0	2 0	2 0	8 0
	RANGPOUR.															
	31 Sadar ...	3 10	3 10	7 12	4 0	4 0	8 8	3 12	3 12	6 0	3 0	3 0	6 0	3 0	3 0	3 0
	32 Nilphamari ...	4 2	4 2	8 8	5 8	(n)	9 0	3 8	3 0	5 8	3 8	3 0	5 8	10 0	10 0	8 0
	33 Bogra—Sadar ...	3 2	3 12	5 8	3 12	4 8	2 4	3 8	3 8	6 0	3 8	3 8	4 8	9 12	9 12	9 5
	PABNA.															
	34 Sadar ...	4 12	4 4	9 0	4 12	4 12	9 12	5 4	5 4	6 0	3 0	3 0	5 8	10 3	10 6	8 0
	35 Sirajganj ...	3 12	3 12	7 8	4 0	4 0	8 8	4 2	4 8	6 8	3 12	3 12	6 8	3 0	3 0	3 0
DACCA.	MALDA.															
	36 Sadar ...	4 8	4 12	8 8	5 0	...	9 12	4 0	4 0	5 0	3 12	3 8	5 0	11 0	11 0	8 0
	37 Balla—Nawabganj ...	4 8	4 8	8 8	4 12	5 0	8 12	4 8	4 0	4 8	3 8	3 8	8 0	11 0	11 0	8 0
	DACCA.															
	38 Sadar ...	3 12	3 12	6 4	0	4 0	8 0	4 0	4 0	4 0	4 0	3 0	5 0	9 0	9 0	9 8
	39 Munshir Hat ...	3 8	3 4	8 0	4 4	3 12	8 0	(a)	(a)	(a)	(n)	(n)	...	9 0	...	8 8
	MYMENSINGH.															
	40 Nasirabad ...	4 0	4 0	6 10	5 0	5 0	6 10	4 0	4 0	8 0	4 0	4 0	5 4	9 0	9 0	8 0
	41 Netrokona ...	3 10	4 0	8 0	4 15	5 5	8 8	5 0	5 0	8 8	3 10	3 8	4 8	10 0	10 0	8 0
	FARIDPUR.															
CHITTAGONG.	42 Sadar ...	4 0	4 0	8 0	4 8	4 8	9 0	4 0	4 0	5 0	4 0	4 0	5 8	9 10	9 10	8 0
	43 Rajshahi ...	4 2	4 0	8 0	4 8	4 8	8 12	3 7	3 7	5 10	3 8	3 0	4 13	9 4	10 0	8 0
	BAKARGANJ.															
	44 Barisal ...	3 9	4 0	7 10	4 0	4 4	8 8	5 4	5 4	5 5	3 4	3 4	5 13	9 4	9 4	8 0
	45 Pirojpur ...	3 8	4 0	8 0	3 12	4 2	...	4 8	4 8	...	(a)	(a)	6 0	8 0	3 0	8 0
	TIPPERA.															
	46 Comilla ...	3 8	3 8	7 11	8 0	4 8	7 14	4 8	4 8	5 0	3 0	3 0	4 10	8 0	8 14	8 12
	47 Chandpur ...	3 10	3 10	8 0	5 4	4 4	9 12	3 12	3 12	5 0	3 8	3 8	7 2	9 8	9 8	9 1
	NOAKHALA.															
	48 Kalitara Hat ...	4 12	4 8	7 0	6 0	5 4	8 0	4 4	4 4	8 0	3 8	3 8	6 0	9 0	9 0	9 0
CHITTAGONG.	49 Feul Hat ...	3 9	3 4	9 0	8 0	5 0	11 0	6 9	6 9	8 0	(n)	(n)	...	8 0	8 0	9 2
	ORISSA.															
	50 Sadar ...	5 0	5 0	8 0	6 8	6 8	8 8	3 12	3 8	6 0	3 0	3 0	5 8	8 8	9 0	10 0
CHITTAGONG.	51 Cox's Bazar ...	5 0	4 4	8 8	(n)	(n)	...	4 0	4 0	4 8	3 4	3 4	4 8	9 0	9 0	8 0
	52 Chittagong Hill Tracts—Rangamati.	5 0	5 0	8 0	5 8	7 0	10 0	4 0	3 8	4 0	3 0	2 8	4 0	8 0	8 0	9 0

° Karkatch.

(a) Not available.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA ;  
The 30th October 1919.



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, *i.e.*, by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the five months, April to August, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta by rail, river, canal, road, and sea (coastwise) during the five months, April to August, 1919, amounted to 9,510,000 maunds, as against 5,254,000 maunds in the corresponding period of the preceding year—an increase of 81 per cent. There was an increase (26 per cent) in the imports of coal and coke (41,791,000 maunds as against 33,271,000 maunds last year). The imports by rail, river, road, and sea (coastwise) of Indian cotton piecegoods showed an increase of 73 per cent, the total value amounting to Rs. 4,02,98,000 as against Rs. 2,32,57,000 in 1918. The quantity of indigo imported during the five months, April to August, 1919, decreased from 4,407 maunds to 1,431 maunds. The imports of raw jute amounted to 1,219,000 bales as against 1,965,000 bales—a decrease of 38 per cent. The importations of gunny bags also showed a decrease of 34 per cent (128 million bags as against 193 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 62 per cent, from 2,692,000 maunds to 4,369,000 maunds. The imports of sugar decreased by 24 per cent, from 309,000 maunds to 235,000 maunds, and those of tea by 10 per cent, from 1,200,000 maunds to 1,084,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta by all routes during the five months, April to August, 1919, decreased by 9 per cent (Rs. 9,76,87,000 as against Rs. 10,73,39,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) decreased from 572 million bags to 439 million bags, and the shipments of gunny bags to other Indian ports decreased from 17 millions to 16 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) increased from 2,179,000 maunds to 2,390,000 maunds, or by 10 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.

† One maund of paddy is equivalent to 25 seers of rice.



TABLE I

*Trade of Calcutta in certain selected articles in the five months, April to August, 1919, compared with the corresponding months of 1918.*

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COASTWISE)	
	April to August, 1919	April to August, 1918	April to August, 1919	April to August, 1918
<b>Food-grains—</b>				
Rice ... .. Mds	9,755,334	4,578,028	1,882,064	2,240,208
Paddy ... .. "	1,639,482	1,065,361	114,206	2,361
Total (in rice) (b)	9,509,906	5,643,389	1,996,270	2,242,569
Wheat ... .. "	1,296,022	2,906,812	52,167	469,823
Wheat flour ... .. "	44,747	25,647	168,220	280,794
Gram and pulses ... .. "	2,629,671	2,673,196	681,970	690,229
Other food-grains ... .. "	431,794	207,693	30,434	12,826
Total food-grains ... .. "	13,906,949	11,069,227	2,887,364	3,594,027
Coal and Coke ... .. "	41,791,380	33,271,128	6,214,042	1,572,872
Cotton, raw ... .. Bales	82,219	52,126	44,741	11,166
" twist and yarn, Indian ... .. Mds	122,873	156,229	94,956	40,634
" piecegoods, Indian ... .. Rs	4,02,94,194	2,32,57,369	7,90,811	8,12,678
Indigo ... .. Mds	1,481	4,407	6,873	19,769
Jute, raw ... .. Bales	1,218,992	1,964,535	731,683	919,010
" gunny bags ... .. No	127,592,023	193,192,741	402,926,824	528,841,627
Lac ... .. Mds	264,168	209,286	212,895	198,084
Oilseeds—Linseed ... .. "	2,161,217	1,247,624	2,817,308	702,290
" Rape and mustard ... .. "	1,218,029	1,244,167	35,517	184,796
Silk, raw ... .. "	1,087	1,088	1,822	1,420
Sugar—Refined ... .. "	24,008	85,898	36,464	6,676
" Unrefined ... .. "	211,077	223,166	808	119
Tea (Indian) ... .. "	1,084,410	1,199,629	1,042,428	1,352,211
Tobacco—unmanufactured ... .. "	561,612	244,263	118,821	82,879
" manufactured ... .. "	24,242	29,421	2,785	2,218
	IMPORTS		EXPORTS	
	BY SEA (FOREIGN AND COASTWISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April to August, 1919	April to August, 1918	April to August, 1919	April to August, 1918
Cotton twist and yarn—foreign ... .. Mds	16,183	47,322	80,126	122,826
" " " "—Indian ... .. "	10,604	14,228	210,481	181,061
" piecegoods—foreign ... .. Rs	6,04,77,069	10,24,25,382	9,76,87,224	10,72,28,725
" " " "—Indian ... .. "	14,66,864	38,45,289	2,20,19,487	96,77,875
Kerosene oil (c) ... .. Mds	2,121,866	2,622,018	2,280,557	2,176,608
Salt ... .. "	2,120,246	4,166,867	2,620,662	2,266,902
Gunny bags ... .. No	.....	.....	62,274,422	60,157,809

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 35 seers of rice.

(c) Including figures of Budge-Budge trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River,

FOOD-GRAINS													
Whence imported	Rice and paddy			Wheat	Wheat flour	Gram and pulse	Other food-grains	Total	Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b) (c)	
	Rice	Paddy (a)	Total (in rice)										
BENGAL	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.	
Bardwan	110,340	232,181	298,603	.....	30	2,663	57	290,348	16,515,834	9	9	2,228	
Birbhum	99,984	1,096	100,841	733	42	256	.....	101,675	.....	4	22	1,280	
Bankura	2,111	22,162	22,837	2	.....	.....	.....	22,839	.....	5	141	6,002	
Midnapur	742,120	21,487	765,360	.....	51	11,073	2	766,685	.....	128	1,194	1,75,420	
Hooghly	477,066	196,762	600,021	345	245	22,079	2,628	628,928	27,412	14	16,766	6,53,733	
24 Parganas	1,022,828	461,923	1,321,590	427	22	11,363	2,249	1,326,541	51,650	774	11,241	4,18,600	
Nadia	82,116	42,592	60,260	22,803	4,209	205,700	24,192	448,265	.....	908	14	29,304	
Murshidabad	29,623	596	30,006	16,875	576	110,211	23,622	186,300	.....	24	5	1,280	
Jessore	105,890	49,078	126,264	207	65	124,947	1,617	263,500	.....	1,272	9	1,594	
Khulna	180,824	232,225	269,129	686	.....	22,129	214	382,160	.....	224	3	2,560	
Rajahmudi	2,192	109	2,260	12,222	999	90,422	.....	96,023	.....	16	.....	6,480	
Dinajpur	24,266	25,248	46,286	.....	.....	2,226	207	49,069	.....	12	.....	160	
Jaipalguni	606	1,822	1,649	.....	.....	.....	.....	1,649	.....	.....	2	640	
Darjeeling	488	1,029	1,414	.....	.....	16	.....	1,420	.....	.....	.....	160	
Baugpur	6,146	4,200	8,770	9,094	5	5,467	1,052	24,279	.....	129	2	1,422	
Bogra	9,627	47,261	29,166	22	.....	4,688	2,469	46,374	.....	30	.....	.....	
Pabna	2,698	.....	2,698	29,192	1,277	147,702	767	181,727	.....	8	26	640	
Malda	1,299	.....	1,299	18,617	1,192	14,127	7,007	39,243	.....	.....	21	.....	
Cooch Behar	417	.....	417	768	199	292	.....	1,676	.....	.....	.....	.....	
Dacca	20,569	204	20,717	1,648	192	22,284	7,248	62,289	.....	10,110	94	4,617	
Mymensing	966	.....	966	517	.....	2,264	10,202	21,029	.....	468	27	2,860	
Faridpur	15,284	2,821	17,579	18,842	747	28,902	6,664	142,225	.....	687	14	.....	
Baharganj	462,222	1,182	463,061	2	.....	2,896	.....	466,959	.....	11	28	1,569	
Tippera (including Hill Tippera)	2,528	297	2,724	.....	.....	.....	725	4,449	.....	2	.....	.....	
Noakhali	4	.....	4	.....	.....	762	.....	767	.....	1	17	1,062	
Chittagong	98,065	.....	98,065	2	.....	4,022	.....	102,110	.....	3,214	.....	.....	
Chittagong Port	2,155	.....	2,155	.....	.....	.....	.....	2,155	.....	.....	.....	.....	
Total of Bengal	2,464,215	1,518,865	4,402,900	121,717	10,142	1,002,494	106,724	6,657,678	16,594,796	18,142	29,667	12,12,423	
OTHER PROVINCES AND PLACES													
Bihar and Orissa	2,208	2,074	4,229	140,691	9,805	928,482	127,267	1,210,474	22,198,216	702	887	1,26,280	
Assam	151,742	168,611	249,624	4,820	80	7,212	202	261,919	2,268	5	22	19,082	
U. P. of Agra and Oudh	2,106	.....	2,106	244,948	21,762	224,850	14,226	1,207,912	.....	2,542	865	6,55,740	
Punjab	2,690	.....	2,690	69,568	1,642	62,678	1,181	128,769	.....	4,664	829	78,128	
Sind and British Baluchistan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	7,210	
Central Provinces and Berar	424	6	428	.....	.....	709	125	1,272	.....	27,689	21,221	11,92,281	
Bombay	.....	.....	.....	.....	1	1,560	2	1,561	3	4,968	46,608	2,20,67,088	
Madras	.....	.....	.....	2,526	24	16,482	4	19,046	.....	12,208	12,741	24,48,592	
Burma	4,842,809	2,925	4,644,968	852	.....	278,104	180,250	5,205,275	.....	816	.....	.....	
Rajputana and Central India	260	.....	260	.....	212	.....	444	722	2	.....	.....	2,46,204	
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	481	125	24,000	
Mysore	.....	.....	.....	.....	1,228	.....	1,189	2,417	.....	.....	1,659	5,59,840	
GRAND TOTAL	1919	8,458,254	1,822,482	9,509,805	1,225,022	44,747	2,622,571	421,794	12,906,940	41,791,880	82,219	112,269	3,88,11,570
	1918	4,576,028	1,085,291	5,264,229	2,206,212	26,647	2,672,196	207,692	11,069,227	22,271,125	62,126	140,001	1,94,12,100
	1917	2,524,809	722,606	2,976,700	5,268,991	100,696	2,466,980	226,248	12,149,615	22,764,804	62,022	204,240	1,70,06,484

(a) One maund of paddy is equivalent to 25 seers of rice.

(b) Excluding trade by sea (seawater).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



II.

## Canal, and Sea (Coastwise) in the five months, April to August, 1919.

Indigo	JUTE		OILSEEDS			Silk, raw	SUGAR		Tea, Indian	TOBACCO		Whence imported
	Raw (d)	Gunny-bags (e)	Jute	Linseed	Rape and mustard		Refined	Un-refined		Unmanufactured	Manufactured	
Mds	Bales of 400 lbs.	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL.
.....	1,706	57,576	32	682	5,338	.....	.....	313	5	368	13	Burdwan
.....	.....	30,174	184	665	1,781	.....	.....	5	1	.....	.....	Birbhum
.....	.....	9,640	37	.....	.....	.....	.....	.....	1	34	42	Bankura
.....	3,081	55,165	6	533	931	7	.....	32,495	.....	44	.....	Midnapur
4	32,177	28,933,030	.....	543	1,779	.....	25	40,671	.....	11,631	867	Hooghly
.....	51,116	87,461,644	.....	326	2,911	.....	10,396	30,266	1	5,067	2,811	24-Paraganas
.....	14,979	19,502	.....	29,741	2,930	68	330	5,048	.....	7,868	3	Nadia
.....	7,750	8,851	1,329	31,446	2,089	779	1	45	.....	518	1,487	Murshidabad
.....	5,580	18,163	.....	1,432	2,340	.....	.....	61,143	.....	2,805	29	Jessore
.....	11,496	8,325	.....	2,668	1,585	.....	.....	650	.....	.....	.....	Khulna
.....	10,807	1,681	.....	13,303	3,538	.....	.....	.....	.....	.....	.....	2
.....	10,380	26,859	.....	.....	1,564	.....	.....	.....	.....	384	.....	Dinajpur
.....	32,584	5,740	13	.....	3,748	.....	.....	.....	281,106	149,139	6	Jalpaiguri
.....	5,424	4,838	.....	418	323	.....	.....	1	107,539	5,461	21	Darjeeling
.....	196,856	33,347	.....	4,407	1,467	.....	.....	.....	9,994	132,253	6	Raipur
.....	34,404	11,973	.....	2,370	9,703	.....	.....	3	3	.....	.....	Bogra
.....	41,684	9,480	.....	15,853	9,386	.....	.....	.....	16	87	.....	Pabna
.....	4,067	451	15	2,154	1,014	132	.....	.....	.....	.....	.....	Malda
.....	39,523	964	.....	.....	424	.....	.....	2,101	.....	39,558	.....	Cooch Behar
.....	329,631	18,145	6	1,619	1,641	.....	328	81	1	16	8	Dacca
.....	192,473	4,397	.....	598	4,346	.....	13	.....	.....	117	7	Mymensingh
.....	75,674	9,389	.....	2,800	9,888	.....	36	300	.....	91	13	Faridpur
.....	2,381	36,994	.....	891	139	.....	.....	260	99	.....	.....	Bakarganj
.....	34,290	269	.....	301	774	.....	.....	.....	28	.....	.....	Tippura (including Hill Tippura)
.....	349	2,690	.....	1,417	.....	.....	.....	.....	.....	.....	.....	Nowkhali
.....	42	2,608	.....	.....	692	.....	.....	.....	3,391	.....	.....	Chittagong
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chittagong Port
4	1,032,944	126,792,157	1,553	116,168	70,680	986	11,119	164,160	401,472	346,661	5,278	Total of Bengal
OTHER PROVINCES AND PLACES												
379	103,769	186,680	144,372	2,006,997	163,651	.....	1,716	17,661	3,320	160,692	16,080	Bihar and Orissa
.....	79,277	55,396	17,448	48,675	98,629	101	3	21	679,659	125	56	Assam
1,048	.....	244,905	66,578	575,207	690,660	.....	1,076	5,962	533	465	519	U. P. of Agra and Outh
.....	.....	64,493	.....	235	120,319	.....	.....	491	20	11	5	Punjab
.....	.....	1,107	.....	.....	9,194	.....	.....	.....	.....	6	12	Sind and British Baluchistan
.....	.....	92,820	10,336	79,138	3,411	.....	.....	.....	21	29	1,306	Central Provinces and Berar
.....	.....	19,763	.....	.....	50,166	.....	1,069	3	46	3,238	77	Bombay
.....	.....	17,712	1,796	690	1,163	.....	3,329	20,711	57	26,977	293	Madras
.....	.....	5,786	31,318	1	.....	.....	182	1,531	40	20,592	678	Burma
.....	.....	31,935	765	10,306	11,377	.....	.....	.....	23	.....	.....	Rajputana and Central India
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nizam's Territory
.....	.....	.....	.....	.....	.....	.....	.....	647	16	736	.....	Mysore
1,431	(f) 1,318,993	127,692,422	264,165	2,151,317	1,218,029	1,087	24,093	211,017	1,064,410	561,612	24,242	1919
4,407	1,964,536	193,192,741	209,296	1,347,694	1,344,187	1,088	85,864	228,166	1,199,620	244,383	29,421	1918
1,542	1,010,860	186,106,859	265,706	715,712	1,544,797	1,626	122,314	171,971	1,019,071	394,970	26,609	1917
GRAND TOTAL.												

(d) Excludes imports into the mitta outside the Calcutta block, which are 887,964 bales, but includes imports into the Kidderpore Docks, namely, 30,404 bales.

(e) Including gunny cloth, 2 yards of cloth = 1 bag.

(f) Of this, 613,978 bales came by rail, 577,678 bales by river, 11,376 bales by road and 16,966 bales by sea.



TABLE III

Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the five months, April to August, 1919.

FOOD-GRAINS													
Routes	Rice	Paddy (a)	Wheat	Wheat flour	Gram and pulse	Other food-grains	Coal and coke	Cotton raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b) (c)	Indigo		
	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Ra	Mds		
By rail	K. L. Railway...	214,222	249,191	718,400	22,916	1,082,440	112,148	20,046,188	8,651	2,011	12,57,186	1,078	
	K. B. Railway (including B. C. Railway)	737,230	335,250	180,944	9,112	696,248	62,834	2,468,099	1,701	980	6,68,366	96	
	A. B. Railway...	1,086	201	.....	.....	821	.....	.....	.....	28	2,204	.....	
	H. N. Railway...	170,991	84,882	2	1,242	27,054	1,803	9,214,080	48,044	91,045	3,57,26,879	.....	
	B. & N. W. Railway	404	.....	339,109	1	174,196	41,569	.....	414	11	6,918	212	
	D. S. Railway...	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,078	.....	
	Kalighat-Falta Railway	89,608	50,108	.....	.....	.....	.....	.....	.....	.....	.....	.....	
	Howrah-Amra and Howrah-Seakhala Light Railways	39,640	8,674	.....	24	8	.....	.....	.....	.....	20,228	.....	
	" river steamer "	Bengal ... and	224,428	11,900	10,374	552	46,042	22,906	.....	12,425	225	1,82,822	.....
		Bihar	48	2	18,812	2,398	27,720	2,701	.....	24	.....	924	.....
Orissa		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Assam		48,546	96,097	760	46	1,145	302	3,263	3	6	10,041	.....	
U. P. of Agra and Oudh		.....	.....	28	14	1,040	2	.....	4	.....	.....	.....	
" boat "	.....	1,714,137	775,203	22,107	228	219,576	4,972	1,062	2,527	22,754	6,57,800	.....	
" road "	.....	289,408	19,025	108	.....	1,279	1,316	66,762	391	5,241	5,06,022	.....	
" sea "	.....	4,842,317	2,985	2,376	1	276,292	120,280	.....	8,114	.....	.....	.....	
Total	1919	8,486,264	1,682,482	1,290,032	44,747	2,625,571	481,794	41,791,280	82,819	112,969	3,68,61,570	1,421	
	1918	4,576,026	1,086,261	2,904,212	26,647	2,675,196	207,692	22,371,128	52,126	140,001	1,94,12,100	4,067	
	1917	2,524,509	722,506	6,266,991	100,616	2,466,980	226,248	25,764,804	62,022	204,240	1,70,06,494	1,643	

Routes	JUTE		Lac	OILSEEDS			Silt, raw	SUGAR		Tea, Indian	TOBACCO	
	Raw (d)	Gunny bags (e)		Linseed	Rape and mustard	Refined		Unrefined	Unmanufactured		Manufactured	
By rail	Bales of 400 lbs	No.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
	K. L. Railway...	18,320	661,290	126,722	755,267	803,080	8	498	12,719	734	2,726	7,030
	E. B. Railway (including B. C. Railway)	844,927	202,047	15,262	111,442	89,082	617	.....	41,171	407,089	469,222	1,482
	A. B. Railway...	74	19,926	305	6,827	44	.....	1	.....	168,668	.....	21
	H. N. Railway	947	258,646	96,427	66,326	11,125	.....	9,207	13,656	2,418	21,547	1,622
	B. and N. W. Railway	8,100	16,684	.....	2,141,097	220,220	.....	1,780	11,210	57	22,262	2
	D. S. Railway	.....	.....	.....	.....	.....	.....	.....	.....	116,670	.....	.....
	Kalighat-Falta Railway	.....	8,651	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Howrah-Amra and Howrah-Seakhala Light Railways.	1,637	17,889	.....	22	.....	.....	8	503	.....	11	.....
	" river steamer "	Bengal and Bihar	442,720	129,027	56	7,957	10,509	491	594	2,227	12,096	252
Orissa		474	6,207	.....	226	6,670	.....	122	.....	.....	5,872	9,422
Assam		46,204	21,894	6,066	55,219	65,964	41	2	2	295,100	.....	22
U. P. of Agra and Oudh		.....	328	.....	.....	227	.....	684	.....	.....	107	150
" boat "	.....	27,267	125,647,491	.....	7,744	11,212	.....	297	102,475	1	12,965	.....
" road "	.....	21,276	679,777	.....	80	.....	.....	10,120	22,511	.....	4,666	2,681
" sea "	.....	18,966	24,266	21,218	1	616	.....	680	1,631	82	20,792	336
Total	1919	1,218,992	127,592,622	264,168	2,151,217	1,218,029	1,087	24,002	211,017	1,084,610	561,612	24,242
	1918	1,864,826	192,192,741	209,266	1,847,624	1,244,187	1,088	66,886	222,168	1,109,629	244,282	29,421
	1917	1,010,860	186,108,859	262,705	715,712	1,544,727	1,626	122,214	171,971	1,012,071	294,970	26,609

(a) One maund of paddy is equivalent to 25 seers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mills outside the Calcutta block, which are 867,924 bales, but includes imports into the Kidderpore Docks, namely, 20,406 bales.

(e) Including fancy cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coast-wise) in the five months, April to August, 1919.*

	COTTON TWIST AND YARN		COTTON PIECE GOODS		Kerosene oil	Salt
	Foreign	Indian	Foreign	Indian		
<b>FOREIGN—</b>	Mds	Mds	Rs	Rs	Mds	Mds
From United Kingdom ... ..	10,278	.....	4,80,44,831	.....	5	638,790
“ Other countries ... ..	2,600	.....	95,98,628	.....	789,888	2,498,456
Total ...	12,878	.....	5,79,40,559	.....	794,893	3,130,246
<b>COASTWISE—</b>						
From British Ports in—						
Bihar and Orissa ... ..	14	.....	.....	.....	.....	.....
Bombay ... ..	1,002	10,874	4,44,885	12,42,822	.....	.....
Madras ... ..	486	146	6,000	8,332	.....	.....
Burma ... ..	802	84	20,88,126	1,06,400	1,342,393	.....
Total ..	2,806	10,804	26,36,510	14,66,554	1,342,393	.....
GRAND TOTAL ...						
1919 ...	16,182	10,804	6,04,77,039	14,66,554	2,121,466	3,130,246
1918 ...	47,322	14,228	10,94,26,882	38,45,289	2,492,018	4,166,867
1917 ...	32,640	1,072	10,31,59,379	72,789	2,280,786	2,844,714



TABLE V

**Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the five months, April to August, 1919.**

FOOD-STUFFS									Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian	
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat flour	Gram and pulse	Other food-grains	Total					
Coastwise—													
To British Ports in—	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs	
Bengal ... ..	267	.....	267	.....	43	52	.....	262	.....	11	596	4,730	
Bihar and Orissa	30,068	.....	30,068	484	1,159	2,186	.....	24,897	2,014	.....	1,577	....	
Madras ... ..	862,399	114,306	923,776	6,407	524	271,507	86	1,312,380	126,492	.....	49	....	
Burma ... ..	4,165	.....	4,165	29,322	140,428	106,750	16,544	307,420	837,846	162	74,346	7,32,069	
Total ... ..	886,888	114,306	958,266	46,424	142,154	481,493	16,610	1,644,949	978,052	173	76,568	7,38,819	
Foreign—													
To United Kingdom	5	.....	5	80	.....	2,919	.....	3,004	2,103	2,712	.....	.....	
„ Other countries	995,171	1	995,172	6,682	26,076	187,556	12,824	1,229,311	5,224,887	41,660	17,730	54,792	
Total ... ..	995,176	1	995,177	6,762	26,076	190,475	12,824	1,232,315	5,227,000	44,372	17,730	54,792	
GRAND TOTAL	1919 ...	1,882,064	114,306	1,953,443	63,187	168,230	681,970	20,424	2,687,364	6,314,049	44,741	94,298	7,91,611
	1918 ...	2,246,366	2,351	2,247,766	486,822	180,794	690,329	19,826	3,664,027	1,673,873	11,195	40,064	8,12,678
	1917 ...	425,450	21	425,463	41,606	429,304	419,877	22,627	1,239,777	2,062,469	26,972	59,076	17,46,113

	JUTE				OILSEEDS			SUGAR		Tea, Indian	TOBACCO		
	Indigo	Raw	Gunny (bags)	Lac	Linseed	Rape and mustard	Silk, raw	Refined	Un-refined		Un-manufactured	Manufactured	
Coastwise—	Mds	Bales of 400 lbs.	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	
To British Ports in—													
Bengal ...	.....	.....	633	.....	.....	.....	.....	1,263	27	4	189	27	
Bihar and Orissa	.....	.....	2,771	.....	.....	136	.....	470	92	.....	1,421	126	
Madras ...	219	9	160,400	106	.....	1,264	.....	30,419	.....	.....	.....	.....	
Burma ...	.....	118	16,304,818	204	.....	2,056	.....	19,491	680	6,626	88,596	1,911	
Total ...	219	127	16,375,622	309	.....	4,446	.....	51,723	799	6,630	90,166	2,063	
Foreign—													
To United Kingdom	1,264	326,302	54,556,900	62,321	2,064,766	4,106	1,019	6	.....	274,754	16,786	17	
„ Other countries	5,290	376,263	331,741,962	160,266	744,552	26,264	804	6,726	4	61,094	11,860	1,705	
Total ...	6,554	721,565	386,600,702	212,686	2,817,308	31,072	1,822	6,731	4	1,025,848	28,646	1,722	
GRAND TOTAL	1919 ...	6,773	721,692	402,976,324	212,896	2,817,308	25,517	1,822	38,464	803	1,042,498	119,021	3,765
	1918 ...	10,769	919,010	326,641,927	196,064	702,290	164,796	1,480	6,676	119	1,265,311	82,479	2,218
	1917 ...	12,374	372,227	326,151,948	166,440	274,907	107,042	1,479	1,974	1,017	929,744	121,606	2,780

(a) One maund of paddy is equivalent to 35 seers of rice.  
(b) Including gunny cloth, 3 yards of cloth = 1 bag.



TABLE VI

*Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the five months, April to August, 1919.*

Whither exported	COTTON TWIST & YARN		COTTON PIECEGOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budge-Budge‡	
BENGAL	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
Burdwan ... ..	435	2,327	15,55,357	1,25,475	575,925	15,657	75,194	102,435
Birbhum ... ..	101	5,304	9,65,103	1,04,194	159,572	105	24,725	70,980
Bankura ... ..	137	2,725	3,31,615	500	75,425	45	...	44,035
Midnapur ... ..	6,754	5,825	20,94,659	1,55,515	224,250	10,075	52,054	141,545
Houghly ... ..	2,993	259	6,17,409	55,543	124,315	22,703	71,124	100,355
24-Paraganas ... ..	717	1,255	2,94,775	2,27,305	544,075	45,051	25,243	104,505
Nadia ... ..	1,251	15,544	24,57,917	3,57,424	575,405	4,245	40,597	140,455
Murshidabad ... ..	205	4,575	19,52,725	1,20,514	255,192	4,145	47,575	115,504
Jessore ... ..	1,115	2,374	10,55,559	2,27,550	155,755	5,045	25,221	55,555
Khulna ... ..	1,751	747	5,52,505	2,25,750	144,750	4,542	25,271	25,504
Rajshahi ... ..	25	404	17,40,557	1,52,055	142,212	2,150	14,550	42,752
Dinajpur ... ..	...	555	12,55,555	2,57,512	155,212	555	25,475	55,747
Jalpaiguri ... ..	145	2,255	15,55,555	5,15,574	172,551	1,442	15,125	70,551
Darjeeling ... ..	251	1,022	15,25,525	1,55,125	102,545	522	21,972	21,204
Rangpur ... ..	222	1,517	25,57,254	2,27,454	121,205	1,252	25,227	151,275
Bogra ... ..	19	224	21,22,774	12,44,225	122,015	1,557	25,221	105,155
Pabna ... ..	2,715	2,225	22,07,701	5,45,425	155,222	222	102,225	102,222
Malda ... ..	20	2,552	12,50,055	2,22,225	115,124	55	2,557	20,127
Ossoh Behar ... ..	54	222	10,22,425	1,15,140	51,244	105	5,741	25,551
Dacca ... ..	5,570	4,557	27,54,244	7,22,442	102,224	12,222	21,222	222,221
Mymensingh ... ..	2,745	2,555	22,22,225	22,05,401	54,275	205	22,225	122,225
Faridpur ... ..	7,221	1,222	11,22,022	5,72,554	154,222	5,275	21,242	115,225
Bakarganj ... ..	5,222	715	7,04,724	2,05,575	257,074	1,555	20,277	52,222
Tipperra (including Hill Tippera) ...	2,121	5,214	12,22,225	54,272	102,222	41	750	22,242
Noakhali ... ..	1,555	4,224	5,22,242	2,12,122	20,204	55	21	222
Chittagong ... ..	2,755	150	2,22,225	1,20,514	154,227	22	...	1,054
Chittagong Port ... ..	52	240	11,00,011	2,22,254	4,715	...	...	15
Total of Bengal ...	55,022	72,225	4,24,42,702	1,14,20,221	5,124,221	145,222	1,052,222	2,272,207
OTHER PROVINCES AND PLACES								
Bihar and Orissa ... ..	5,272	41,247	2,00,27,152	25,70,207	5,225,152	4,522	572,202	1,045,202
Assam ... ..	7,222	5,442	25,02,221	22,20,222	754,751	5,172	12,222	222,722
U. P. of Agra and Oudh ... ..	1,222	1,751	1,27,22,151	21,15,017	5,511,522	1,450	507,415	5,224
Punjab ... ..	2,725	1,224	22,72,522	2,22,422	7,222,244	42	22,212	2
Sind and British Baluchistan ...	...	...	1,05,722	...	1,227,224	227	...	...
Central Provinces and Berar ...	15	227	7,12,704	25,422	1,122,222	722	11,225	2,422
Bombay ... ..	172	442	5,55,212	55,222	4,210,122	4,022	172	...
Madras ... ..	1,522	4,105	4,12,242	2,22,272	2,122,422	2,512	...	112
Burma ... ..	5,254	74,245	25,11,554	7,22,022	15,205,212	222	...	245
Rajputana and Central India ...	45	152	5,22,247	22,422	222,702	1,422	22,225	2
Kashmir State ... ..	47	1	1,552	...	...	...	...	...
Nizam's Territory ... ..	...	2	1,72,221	240	222,202	2,514	...	...
Mysore ... ..	...	...	2,054	1,222	151,227	...	...	...
Port Blair ... ..	...	222	7,700	4,720	222	...	...	...
1919 ...	80,122	210,421	2,75,57,224	2,20,19,427	52,274,422	174,222	2,215,752	2,520,242
1918 ...	122,222	121,051	10,72,22,722	25,77,272	50,157,202	122,140	2,050,222	2,225,202
1917 ...	72,274	177,012	2,45,20,022	21,41,112	41,222,207	170,207	2,225,022	2,225,027
GRAND TOTAL								

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† including gunny cloth, 2 yards of cloth = 1 bag.

‡ The exports of kerosene oil from Budge-Budge to Calcutta in the five months, April to August, 1919, were 212,245 maunds, against 427,544 maunds and 222,240 maunds in the corresponding periods of 1918 and 1917, respectively.



TABLE VII

*Statement of the Routes by which the Articles enumerated in Table No. VI were exported from the Calcutta Trade Block in the five months, April to August, 1919*

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny-bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budge-Budge	
	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
By rail ...								
E. I. Railway ...	5,371	28,502	2,27,00,513	30,14,044	6,273,041	16,346	706,836	574,690
E. B. Railway (including B. O. Railway)	2,193	44,786	2,51,09,093	72,76,184	2,964,091	19,440	343,748	1,219,690
A.-B. Railway ...	1,123	19,079	66,46,496	3,66,122	122,796	1,344	186	26,174
B.-N. Railway ...	945	22,723	27,91,060	7,57,372	1,919,251	4,879	816	278,969
B. & N.-W. Railway ...	87	5,972	1,24,39,504	21,92,389	2,640,843	1,184	224,746	242,645
O. & B. Railway ...	231	171	27,81,551	1,63,725	683,921	634	213,202	22
Howrah-Amra and Howrah-Sankhal Light Railways	1,000	...	2,22,994	...	26,003	2,479	...	14,955
N.-W. Railway ...	1,105	441	20,62,992	84,216	8,311,726	17	8,206	...
G. I. P. Railway ...	244	264	12,29,214	26,243	4,802,740	5,461	4,996	2
B. R. & O. I. Railway ...	119	227	6,97,061	10,296	1,193,716	154	2,541	...
M. & B. M. Railway ...	1,983	2,797	2,71,966	1,39,446	2,176,412	2,796	...	20
S. I. Railway ...	...	196	222	42,246	664,669	...	...	...
J. B. Railway ...	...	9	2,03,766	2,961	26,196	279	426	...
N. G. S. Railway ...	...	2	1,72,932	960	162,677	2,514	...	...
Other Railways ...	24	2	4,19,909	20,909	114,472	606	21,226	7,941
By river steamer ...								
Bengal ...	44,379	12,246	1,14,64,622	49,25,809	1,092,855	19,282	499,499	492,209
Bihar and Orissa ...	664	279	2,82,201	1,44,162	1,660,964	12	...	960
Assam ...	6,551	2,204	46,96,026	12,22,029	824,220	4,161	9,612	166,299
U. P. of Agra and Oudh ...	45	26	77,771	10,684	181,548	40	...	...
By boat ...	2,967	...	2,92,250	22,700	220,622	28,926	136,492	296,449
.. road ...	2,266	194	4,99,691	2,69,220	220,667	50,422	2,107	67,926
.. sea ...	7,278	76,866	25,16,746	7,86,819	16,276,622	...	10,400	7,289
Total ...								
1919 ...	80,126	210,461	9,76,67,224	2,20,19,457	62,274,482	174,692	2,215,755	2,620,262
1918 ...	122,226	181,061	10,78,22,725	96,77,878	69,157,809	126,140	2,050,268	2,266,902
1917 ...	79,274	177,018	9,46,90,096	91,41,116	41,629,207	170,807	2,255,022	2,822,067

\* The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.  
† Including gunny cloth. 2 yards of cloth=1 bag.

DEPARTMENT OF STATISTICS, INDIA,

G. FINDLAY SHIRRAS,

November 4, 1919.

Director of Statistics.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 1st November 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 8 0	9 12 0	0 3 0	0 4 3
" medium	10 0 0	10 4 0	0 4 6	0 5 0
Patnai, coarse	8 8 0	9 3 0	0 3 6	0 4 3
" medium	9 4 0	10 8 0	0 4 6	0 5 0
Nagra, coarse	8 10 0	9 4 0	0 3 6	0 4 3
" medium	9 6 0	10 10 0	0 4 6	0 5 0
Dudhkalma	8 12 0	9 4 0	0 3 9	0 4 0
Rangoon Boiled	.....	.....	0 3 0	0 3 6
Kajla	8 6 0	.....	0 3 3	.....
Wheat, Dudhia	7 8 0	.....	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 0 0	.....	.....	.....
Gram, Patnai (whole)	7 2 0	8 4 0	0 3 0	0 3 6
" dal	8 4 0	9 8 0	0 3 9	0 4 6
Mung " (Hari)	9 12 0	11 0 0	0 5 6	0 8 0
" (Krishna)	9 4 0	9 12 0	0 5 0	0 6 0
Arhar	8 0 0	10 0 0	0 3 6	0 5 6
Masur " (split)	7 8 0	8 8 0	0 3 6	0 4 0
" (Khanri)	10 12 0	11 4 0	0 4 6	0 5 3
Kalai	7 8 0	8 8 0	0 5 0	0 6 0
Salt	3 3 6	3 7 0	0 1 6	0 1 9
Sugar (Brown Java)	21 2 0	.....	0 8 6	0 10 0
Gur, Bheli	9 8 0	.....	0 4 6	.....
" Bhursut	11 0 0	11 4 0	0 5 0	0 6 0
Milk	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	33 0 0	35 8 0	0 15 0	1 4 0
Flour (country)	9 8 0	10 2 0	0 4 0	0 5 6
Atta, No. 3	7 6 0	.....	.....	.....
" " 2½	7 12 0	.....	0 3 6	0 5 6
" " B	10 6 0	.....	.....	.....
Suji	10 2 0	10 8 0	0 4 6	0 5 6
Ghee (Bhadwa, Matki, etc.)	89 0 0	90 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	84 0 0	85 0 0	2 6 0	.....
" (Lalli, Etwa, Sagar, etc.)	79 0 0	80 0 0	2 3 0	2 4 0
Maize	5 8 0	5 10 0	.....	.....
Potato	7 4 0	12 0 0	0 3 6	0 4 0
Patal	5 0 0	5 8 0	0 3 6	0 4 0
Brinjal	4 0 0	4 4 0	0 2 6	0 3 6
Onion	3 12 0	4 2 0	0 1 6	0 2 6
Fish, Rahu	20 0 0	26 0 0	0 10 0	0 12 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of price of the following markets :—

• *Wholesale*.—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail*.—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 1st November 1919.



**Statement showing the gauge-readings at Dacca Water-works Station  
on the river Buriganga for the week ending the 18th October 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
12th Oct.	63.3	...	...	...	...	63.3	
13th "	63.3	...	...	...	...	63.3	
14th "	63.3	...	...	...	...	63.25	
15th "	63.2	...	...	...	...	63.1	
16th "	63.2	...	...	...	...	63.2	
17th "	63.2	...	...	...	...	63.2	
18th "	63.1	...	...	...	...	63.1	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	...	67.86	
10th August	1910	...	...	...	...	69.86	
1st "	1911	...	...	...	...	68.46	
13th "	1912	...	...	...	...	67.16	
31st "	1915	...	...	...	...	69.7	
18th "	1916	...	...	...	...	68.1	
12th "	1917	...	...	...	...	67.1	
31st "	1918	...	...	...	...	69.12	Taken at low tide.
28th February	1907	...	...	...	...	51.06	
13th "	1908	...	...	...	...	51.06	
12th March	1913	...	...	...	...	51.06	
6th "	1914	...	...	...	...	50.60	
22nd February	1915	...	...	...	...	50.30	
15th "	1916	...	...	...	...	50.60	
3rd March	1917	...	...	...	...	51.0	
21st February	1918	...	...	...	...	51.40	

Dacca,

The 20th October 1919.

W. J. KERR.

Executive Engr., Dacca Division.

**Statement of weekly gauge-readings on the rivers Ganges and  
Brahmaputra for the week ending 25th October 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea- level on same date last year.	Remarks.
1919.					
19th October...	7 A.M.	19.0	19.0	13.6	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passen- ger ghât and Chandpur ghât. Its reduced level is 22.41.
20th "	7 "	18.7	18.7	13.5	
21st "	7 "	18.3	18.3	13.4	
22nd "	7 "	17.9	17.9	13.4	
23rd "	7 "	17.5	17.5	13.4	
24th "	7 "	17.2	17.2	13.4	
25th "	7 "	16.9	16.9	13.2	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest "	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest "	...	25.75 on 26th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto "	...	25.74 on 20th and 21st August 1893.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto "	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Do. only)	...	Ditto "	...	25.66 on 31st July 1900.
Do.	...	Lowest "	...	1.0 on 8th February 1914.
Do.	...	Ditto "	...	2.42 on 13th March 1908.
Do.	...	Ditto "	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto "	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto "	...	3.16 on 16th, 17th and 29th to 31st March 1901.

Faridpur,

The 26th October 1919.

N. DE,

Subdivisional Officer, P. W. D., Faridpur.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur.  
Boalia for the week ending the 25th October 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea- level according to P. W. D. datum.(a)	Height of surface above mean sea- level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
19th October	8 A.M.	Zero of gauge is at mean sea level.	48.95	45.31	B. M. on College step corrected, 64.93.
20th "	8 "		48.50	45.11	
21st "	8 "		48.00	45.01	
22nd "	8 "		47.80	44.91	
23rd "	8 "		47.45	44.71	
24th "	8 "		47.10	44.51	
25th "	8 "		46.90	44.31	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value!	According to P. W. D. datum.
The previous year	Highest water-level	...	66.62 on 30th August 1918	61.71
Ditto	Lowest "	...	41.70 on 21st April 1918	36.85
Record	Highest "	...	69.25 on 26th August 1879	64.44
Do.	Ditto "	...	69.08 on 9th September 1886	64.27
Do.	Ditto "	...	68.30 on 25th August 1906	63.47
Do.	Ditto "	...	68.21 on 26th August 1890	63.40
Do.	Lowest "	...	37.63 on 25th April 1884	32.82
Do.	Ditto "	...	38.13 on 14th-15th April 1883	33.82
Do.	Ditto "	...	39.02 on 21st-22nd April 1897	34.21
Do.	Ditto "	...	39.28 on 6th-7th May 1908	34.47

N.B.—The gauge-readings commenced from 1st August 1907.

BOALIA,  
The 25th October 1919.

M. SEN GUPTA,  
Executive Engineer, Rajshahi Divn.

**GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.**

**Approximate return of traffic on the Circular and Eastern Canals for  
the week ending Saturday, the 25th October 1919, as compared with  
the corresponding week of the previous year.**

Nature of Cargo.	WEEK ENDING SATURDAY, THE 25TH OCTOBER 1919.			WEEK ENDING SATURDAY, THE 25TH OCTOBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy	370	28,380	496	847	117,180	1,933
Jute	300	131,887	1,326	258	75,471†	977
Firewood	69	35,440	528	127	58,125	883
Other articles	908	198,809	2,347	1,072	180,029	2,261
Total	1,647	394,516	4,697	2,304	430,805	6,074
Empty boats and rafts	557	...	1,023	670	...	1,967
GRAND TOTAL	2,204	394,516	5,720	2,974	430,805	8,041

Mds.  
\* Weight by canal measurement ... 140,075  
† Ditto ditto ... 86,100

CALCUTTA,  
The 4th November 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



## IRRIGATION DEPART

**Statement showing heights over mean sea-level and low water in the September 1919, and the highest reading of each gauge over**

RIVER GANGA.											
Date.	Mirzapore. Zero of gauge 206'32 ft.		Benares. Zero of gauge 166'80 ft.		Buxar. Zero of gauge 167'85 ft.		Disapore. Zero of gauge 134'33 ft.		Monghyr. Zero of gauge 101'88 ft.(a)		
	Distance in miles.	From Allah- bad 86.	From Allah- bad 124.	From Mirzapur 48.	From Benares 80.	From Benares 177.	From Buxar 67.	From Benares 287.	From Disapore 110.		
	Highest gauge reading.	2nd September 1916. 266'97.	2nd September 1916. 244'30.	3rd and 4th Septem- ber 1916. 202'80.	5th September 1901. 166'78.	8th September 1901. 139'60.					
	Lowest gauge reading.	28th June 1897. 167'80.	1st May 1877. 163'80.	10th to 14th May 1914. 160'80.	20th April 1919. 125'13.	30th April to 6th May 1914. 96'00.					
	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	
1	2	3	4	5	6	7	8	9	10	11	12
1st	...	45'58	251'80	40'50	237'30	31'42	198'97	30'70	164'93	23'47	125'30
2nd	...	47'17	253'39	42'75	239'55	32'00	199'55	30'90	165'13	23'47	125'30
3rd	...	48'33	254'55	44'50	241'30	32'58	200'13	31'80	166'03	23'57	125'40
4th	...	48'00	254'22	45'00	241'80	33'00	200'55	33'80	166'03	24'67	126'50
5th	...	46'50	252'72	44'33	241'13	33'33	200'88	33'70	167'93	25'37	127'20
6th	...	45'50	251'72	43'83	240'63	33'42	200'37	33'60	167'83	25'67	127'50
7th	...	42'50	248'72	41'75	238'55	33'50	201'05	34'00	168'23	25'87	127'70
8th	...	39'00	245'22	39'25	236'05	33'00	200'55	34'70	168'93	26'37	128'20
9th	...	35'50	241'72	36'00	232'80	32'50	200'05	34'50	168'73	26'67	128'50
10th	...	32'17	238'39	32'83	229'63	31'50	199'05	33'40	167'63	26'87	128'70
11th	...	30'08	236'30	29'83	226'63	30'25	197'80	32'10	166'33	26'67	128'50
12th	...	28'75	234'97	29'33	226'13	29'17	196'72	30'80	165'03	26'27	128'10
13th	...	27'75	233'97	28'33	225'13	28'50	196'05	29'90	164'13	25'57	127'40
14th	...	26'92	233'14	27'58	224'38	27'67	195'22	29'40	163'63	24'77	126'60
15th	...	26'17	232'39	26'92	223'72	27'17	194'72	28'70	162'93	24'17	126'00
16th	...	25'25	231'47	25'92	222'72	26'50	194'05	28'10	162'33	23'27	125'10
17th	...	24'17	230'39	25'00	221'80	25'50	193'05	27'40	161'03	22'37	124'20
18th	...	22'58	228'80	23'42	220'22	25'00	192'55	26'50	160'73	21'67	123'50
19th	...	21'50	227'72	21'75	218'65	23'50	191'05	25'50	159'73	20'47	122'30
20th	...	19'83	226'05	20'25	217'05	22'75	190'30	24'70	158'93	19'47	121'30
21st	...	18'83	225'05	19'00	215'80	21'75	189'30	24'00	158'23	18'87	120'70
22nd	...	18'08	224'30	18'00	214'80	20'33	187'88	23'10	157'33	17'87	119'70
23rd	...	17'33	223'55	17'25	214'05	19'42	186'97	22'20	156'43	17'77	119'60
24th	...	16'83	223'05	16'67	213'47	18'67	186'22	21'70	155'93	16'27	118'10
25th	...	16'50	222'72	16'17	212'97	17'67	185'22	21'00	155'23	15'67	117'50
26th	...	16'08	222'30	15'67	212'47	17'67	185'22	20'30	154'53	14'17	116'00
27th	...	15'67	221'89	15'25	212'05	17'33	184'88	19'70	153'93	13'77	115'60
28th	...	15'33	221'55	15'00	211'80	16'75	184'30	19'40	153'63	13'17	115'00
29th	...	15'17	221'39	14'50	211'30	16'33	183'88	18'90	153'13	12'87	114'70
30th	...	15'17	221'39	14'00	210'80	16'00	183'55	18'50	152'73	12'17	114'00

\* New gauge fixed at Rajmahal from 1st June 1910 in place of the gauge at Sahabganj. The zero of gauge at Rajmahal 56'46 ft. above M.S.-L. from 10th February 1916 to 15th June 1918. From the 16th June 1918 to 6th April 1919 it is 56'819 ft. above M.S.-L.

† To compare the reduced levels shown in these monthly printed statements before and after the 1st June 1905, 5'78 ft. (October 1909).

(a) A new gauge fixed at Monghyr on 16th July 1914.

(b) From the 1st November 1915 the zero of gauge was 2'48 ft. above M.S.-L. Previous to that the zero was at M.S.-L. zero is 1'509 ft. above M.S.-L.

(c) From the 25th January 1916 to 4th April 1919 the zero of gauge at Berhampore was 30'99 ft. above M.S.-L. From

(d) From the 25th October 1916 a temporary wooden gauge with its zero at 49'00 ft. above M.S.-L. was erected at

2nd June 1919. From 4th June 1919 the zero is 1'51 ft. above M.S.-L.

(e) Gauge shifted from Sakib Goslundo to Fakirabad from 30th June 1919.

The 4th November 1919.



## MENT, BENGAL.

*rivers Ganges, Bhagirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge-reading since 1876.*

						RIVER BHAGI- RATHI.		RIVER JALANGI.		RIVER BRAHMA- PUTRA.	
Rajmahal. Zero of gauge 56'219 ft.		Rampur-Boalia. Zero of gauge 1'81 ft. (d)		Goalundo. (e) Zero of gauge is at mean sea-level.		Berhampore. Zero of gauge 53'499 (c)		Barupganj. (b) Zero of gauge 1'508.		Gauhati. Zero of gauge 148'76 ft.	
From Benares 407.	From Monghyr 120.	From Benares 471.	From Rajmahal 64.	From Benares 591.	From Rampur- Boalia 120.						
13th August 1918. 88'46.		26th August 1879. 69'25.		28th August 1906 and 14th Septem- ber 1916. 36'76.7		14th August 1900. 84'70.		28th September 1900. 83'03.		24th August 1906. 191'11.	
2nd May 1910. 84'03.		28th April 1888. 37'63.		28th March 1910. 3'16.		19th to 24th April 1917. 83'40.		28th March 1915. 3'13.		9th February 1888. 143'66.	
Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
13	14	15	16	17	18	19	20	21	22	23	24
25'10	81'419	58'49	60'00	22'00	22'00	22'30	54'799	26'93	28'439	15'40	164'16
25'15	81'469	58'39	59'90	21'80	21'80	21'80	54'299	26'70	28'209	15'70	164'46
25'05	81'369	58'19	59'70	21'60	21'60	21'60	54'099	26'43	27'989	16'10	164'86
25'30	81'619	58'19	59'70	21'50	21'50	21'40	53'899	26'21	27'719	16'60	165'36
25'85	82'169	58'59	60'10	21'50	21'50	21'60	54'099	25'99	27'499	18'30	167'06
26'40	82'719	59'19	60'70	21'80	21'80	21'90	54'399	26'42	27'929	19'40	168'16
26'90	83'219	59'59	61'10	22'10	22'10	22'10	54'599	26'67	28'179	19'90	168'66
27'25	83'569	59'99	61'50	22'40	22'40	23'00	55'499	26'97	28'479	20'70	169'46
27'55	83'869	60'39	61'90	22'70	22'70	23'00	55'499	27'25	28'759	21'20	169'96
27'80	84'119	60'74	62'25	22'90	22'90	24'10	56'599	27'47	28'979	22'00	170'76
28'20	84'519	61'09	62'60	23'00	23'00	24'60	57'099	27'69	29'199	23'00	171'76
28'25	84'569	61'24	62'75	23'30	23'30	25'10	57'599	27'84	29'349	24'10	172'86
28'25	84'569	61'29	62'80	23'40	23'40	25'60	58'099	28'07	29'579	24'30	173'06
27'85	84'169	61'14	62'65	23'60	23'60	25'90	58'399	28'29	29'799	24'10	172'86
27'35	83'669	60'94	62'45	23'70	23'70	25'90	58'399	28'43	29'939	23'90	172'66
26'70	83'019	60'64	62'15	23'70	23'70	25'80	58'299	28'52	30'029	23'40	172'16
25'95	82'269	59'99	61'50	23'60	23'60	25'40	57'899	28'52	30'029	22'90	171'66
25'00	81'319	59'29	60'80	23'40	23'40	24'80	57'299	28'50	30'009	22'10	170'86
23'80	80'119	58'39	59'90	23'20	23'20	24'00	56'499	28'47	29'979	22'00	170'76
22'50	78'819	57'19	58'70	23'00	23'00	22'70	55'199	28'30	29'809	21'80	170'56
21'45	77'769	55'99	57'50	22'50	22'50	21'40	53'899	27'98	29'489	22'40	171'16
20'50	76'819	55'09	56'60	21'80	21'80	20'00	52'499	27'49	28'999	23'00	171'76
19'85	76'169	54'29	55'80	21'30	21'30	18'30	50'799	26'78	28'289	23'30	172'06
19'25	75'569	53'59	55'10	21'00	21'00	17'00	49'499	25'72	27'229	23'30	172'06
18'65	74'969	52'99	54'50	21'50	21'50	15'80	48'299	24'25	25'759	23'40	172'16
18'20	74'519	52'54	54'05	20'70	20'70	14'90	47'399	22'70	24'209	22'60	171'36
17'85	74'169	52'19	53'70	20'30	20'30	13'70	46'199	21'14	22'649	22'20	170'96
17'45	73'769	51'79	53'30	20'00	20'00	13'30	45'799	19'59	21'099	22'30	171'06
17'05	73'369	51'49	53'00	19'70	19'70	12'40	44'899	18'18	19'689	22'90	171'66
16'65	72'969	50'99	52'50	19'60	19'60	11'20	43'699	15'89	18'399	23'00	171'76

was 56'46 ft. above M.S.-L. up to 26th October 1915 and 60'00 ft. above M.S.-L. from 27th October 1915. The zero was again it was 54'81 ft. above M.S.-L., from 7th to 15th April 1919 it was 56'32 ft. above M.S.-L., and from 16th should be deducted from the former or added to the latter (*vide* Bengal Government letter No. 1088T.—I., dated the 12th

dating back 15th July 1897. Zero was at M.S.-L. from 1st April 1918 to 13th April 1919. Again from 14th April 1919 the 5th April 1919 the zero is 52'499 ft. above M.S.-L. Rampur-Boalia in place of the permanent gauge washed away. The zero of gauge was at M.S.-L. from 25th June 1918, till

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 12, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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### GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 1st November 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 1ST NOVEMBER 1919.			WEEK ENDING SATURDAY, THE 2ND NOVEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	375	28,570	493	1,005	137,465	2,439
Jute ...	257	109,857*	1,116	289	104,474†	1,240
Firewood ...	75	41,425	679	145	60,250	933
Other articles ...	884	200,270	2,210	1,029	150,898	1,972
Total ...	1,591	380,122	4,498	2,468	453,077	6,584
Empty boats and rafts ...	525	...	1,160	577	...	1,451
GRAND TOTAL ...	2,116	380,122	5,658	3,045	453,077	8,035

Mds.

\* Weight by canal measurement ... 120,619½  
† Ditto ditto ... 117,475

CALCUTTA.  
The 11th November 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 8th November 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 8TH NOVEMBER 1919.			WEEK ENDING SATURDAY, THE 9TH NOVEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	402	29,007	488	987	116,655	2,085
Jute ...	229	100,301 <sup>a</sup>	1,056	235	118,649 <sup>†</sup>	1,292
Firewood ...	98	42,000	620	126	63,095	952
Other articles ...	994	205,473	2,443	961	181,925	2,471
Total ...	1,718	376,781	4,607	2,309	480,394	6,800
Empty boats and rafts ...	653	...	1,264	561	...	1,659
GRAND TOTAL	2,371	376,781	5,871	2,870	480,394	8,459

Mds.  
106,912<sup>†</sup>

<sup>a</sup> Weight by canal measurement ... 158,375

<sup>†</sup> Ditto ditto ...

CALCUTTA,  
The 11th November 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

*Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 1st November 1919.*

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 5 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
26th Oct.	61.8	...	...	...	...	61.7	
27th "	61.4	...	...	...	...	61.2	
28th "	60.85	...	...	...	...	60.65	
29th "	60.4	...	...	...	...	60.28	
30th "	60.05	...	...	...	...	59.9	
31st "	59.6	...	...	...	...	59.4	
1st Nov.	59.2	...	...	...	...	59.05	

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.6	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	Taken at low tide.
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.80	
15th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 2nd November 1919.

W. J. KERR,  
Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur.  
Boalia for the week ending the 1st November 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
26th October ...	8 A.M.	Zero of gauge is at mean sea level.	46.60	44.01	B. M. on College 'step' corrected, 64.93.
27th " ...	8 "		46.40	43.81	
28th " ...	8 "		46.10	43.71	
29th " ...	8 "		45.80	43.51	
30th " ...	8 "		45.65	43.41	
31st " ...	8 "		45.65	43.36	
1st November ...	8 "		45.60	43.21	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

		Old value.	According to P. W. D. datum.
The previous year ...	Highest water-level ...	66.52 on 30th August 1918	61.71
Ditto ...	Lowest " ...	41.70 on 21st April 1918	36.89
Record ...	Highest " ...	69.25 on 26th August 1879	64.44
Do. ...	Ditto " ...	69.08 on 9th September 1886	64.27
Do. ...	Ditto " ...	68.30 on 26th August 1906	63.47
Do. ...	Ditto " ...	68.21 on 26th August 1890	63.40
Do. ...	Lowest " ...	37.68 on 26th April 1884	32.82
Do. ...	Ditto " ...	38.18 on 14th-15th April 1883	33.82
Do. ...	Ditto " ...	39.02 on 21st-22nd April 1897	34.21
Do. ...	Ditto " ...	39.28 on 6th-7th May 1908	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,  
The 1st November 1919.

M. SEN GUPTA,  
Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 1st November 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
26th October...	7 A.M.	16.4	16.4	12.9	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
27th " ...	7 "	15.9	15.9	12.4	
28th " ...	7 "	15.5	15.5	12.1	
29th " ...	7 "	14.8	14.8	11.8	
30th " ...	7 "	14.4	14.4	11.4	
31st " ...	7 "	14.0	14.0	11.6	
1st November	7 "	13.7	13.7	14.4	

The previous year ...	Highest water-level ...	25.2 on 1st September 1918.
Ditto ...	Lowest " ...	5.3 on 9th March 1916.
Record (H.F. in Brahmaputra and Ganges) ...	Highest " ...	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges) ...	Ditto " ...	25.74 on 20th and 31st August 1898.
Record (H.F. in Brahmaputra and Ganges) ...	Ditto " ...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only) ...	Ditto " ...	25.66 on 31st July 1900.
Do. ...	Lowest " ...	1.0 on 8th February 1914.
Do. ...	Ditto " ...	2.42 on 13th March 1903.
Do. ...	Ditto " ...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do. ...	Ditto " ...	3.16 on 9th to 11th March 1885.
Do. ...	Ditto " ...	3.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,  
The 2nd November 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 6th November 1919.

**Summary.**—The week was rainless. In West Bengal highland paddy is suffering owing to the continued want of rain. Harvesting of early winter paddy continues. Sowing of spring crops is proceeding, but in some western districts the progress is slow owing to insufficient moisture in the soil. The average price of common rice for the province has fallen by about 4·16 per cent. as compared with that of the previous week. The conditions in Bankura are published separately.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs. PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	{ 4 <sup>9</sup> / <sub>16</sub> 6 <sup>3</sup> / <sub>8</sub> }	{ 4 <sup>9</sup> / <sub>16</sub> 6 <sup>3</sup> / <sub>8</sub> }	Steeping of jute still continues. <i>Rabi</i> crops are being sown. Harvesting of <i>aman</i> paddy has commenced. Water is sufficient.
	Diamond Harbour.	(n)	(n)	{ 4 <sup>3</sup> / <sub>4</sub> 5 <sup>7</sup> / <sub>8</sub> }	
	Barrackpore	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	
	Barasat ...	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	
	Basirhat ...	Nil	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	
2	NADIA ...	Nil	{ 4 <sup>3</sup> / <sub>4</sub> 6 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>5</sup> / <sub>8</sub> 6 <sup>1</sup> / <sub>2</sub> }	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops is being retarded for want of rain. Washing of jute is nearly finished. Cattle-disease is reported from Chakda thana.
	Kushtia ...	Nil	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 7 <sup>•</sup> }	
	Meherpur ...	Nil	{ 6 <sup>•</sup> 5 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Chuadanga ...	Nil	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Ranaghat ...	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	
3	MURSHIDABAD	Nil	5†	{ 4 <sup>1</sup> / <sub>2</sub> to 4 <sup>1</sup> / <sub>2</sub> }	Prospects of standing crops are fair. Rain is wanted in some parts for <i>aman</i> paddy. Burma rice is not available. Sowing of <i>rabi</i> crops continues. Fodder is sufficient. No large import or export.
	Lalbagh ...	Nil	5†	{ 5† to 6† }	
	Jangipur ...	Nil	5†	5†	
	Kandi ...	(n)	(n)	(n)	
4	JESSORE ...	Nil	{ 6 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	{ 6 <sup>•</sup> 6 <sup>•</sup> }	Standing crops are doing well. Sowing of <i>rabi</i> crops continues. Rain is wanted in some places. Fodder is sufficient.
	Jhenidah ...	(n)	(n)	5	
	Magura ...	Nil	5	4 <sup>1</sup> / <sub>2</sub>	
	Narail ...	Nil	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	{ 4 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Bangaon ...	Nil	5†	5†	
5	KHULNA ...	Nil	{ 4 <sup>1</sup> / <sub>2</sub> 6 <sup>•</sup> }	{ 5† 6 <sup>1</sup> / <sub>2</sub> }	Harvesting of early <i>aman</i> is going on in Satkhira subdivision. Fodder and water are sufficient except in Syamnagar and Pratabnagar police-stations.
	Satkhira ...	Nil	5	{ 5 <sup>1</sup> / <sub>2</sub> 5 <sup>1</sup> / <sub>2</sub> }	
	Bagerhat ...	Nil	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	{ 5 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>2</sub> }	
6	BURDWAN ...	Nil	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	Weather cool and dry. Winter paddy is suffering for want of rain. Prospects of winter paddy are excellent in Asansol, fair in Katwa, and bad in Sadar and Kalna subdivisions. Sowing of <i>rabi</i> crops is retarded for want of moisture.
	Asansol ...	Nil	5	5	
	Katwa ...	Nil	5	5	
	Kalna ...	Nil	4 <sup>5</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>8</sub>	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN ANNAS, PER RUPEE.		Character of the weather condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
7	BIRBHUM ...	Inches Nil	5½	5½	Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	Nil	5½	5½	
8	BANKURA ...	Nil	5	5	Damage to winter paddy by drought is estimated at about 2 to 3 annas. Export of rice and paddy is going on. Reaping of early <i>aman</i> paddy continues.
	Vishnupur...	Nil	5½	5½	
9	MIDNAPORE	Nil	{ 4½ 5½ 5½† 6½† }	{ 4½ 5½ 5½† 6½† }	Prospects of winter rice are fair. Sowings of summer rice, tobacco and linseed continue.
	Ghatal ...	Nil	{ 4½ 5½† }	{ 4½ 5½† }	
	Tamluk ...	Nil	{ 4½ 5½† 5½† }	{ 4½ 5½† 5½† }	
	Contai ..	Nil	{ 5½† 5½† 4½† }	{ 5½† 5½† 4½† }	
			{ 4½† 5½† }	{ 4½† 5½† }	
10	HOOGHLY ...	Nil	{ 5½ to 6½ }	{ 5½ to 6½ }	Effects of weather on the growth of the crops are unfavourable. Fodder is sufficient. Rain needed.
	Serampore ...	Nil	{ 4½ 6° }	{ 4½ 6° }	
	Arambagh ...	Nil	{ 5½ 4½ }	{ 5½ 4½ }	
11	HOWRAH ...	Nil	{ 4½ 6½ }	{ 4½ 6½ }	Weather seasonable. Sowing of pulses has commenced. Condition of sugarcane and paddy is fair. Rain is wanted. Fodder is sufficient.
	Ulubaria ..	Nil	{ 4½ 6½ }	{ 4½ 6° }	
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	{ 4½ 5½ }	{ 4½ 5½ }	Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops continues. Fodder is sufficient.
	Naogaon ...	Nil	{ 4½ 5½ }	{ 3½ 5½ }	
	Nator ...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
13	DINAJPUR ...	Nil	4½	4½	Weather seasonable. Prospects of standing crops are fair. Rice market is stationary. Export of paddy and rice is decreasing. Fodder and water are sufficient.
	Thakurgaon	Nil	5	5	
	Balurghat ...	Nil	4½	4½	
14	JALPAIGURI...	Nil	{ 4 6° }	{ 4 5½° }	Prospects of standing crops are fair. Fodder and water are sufficient. Cattle disease is prevalent in the town.
	Alipur ...	Nil	{ 4 6° }	{ 4 6° }	
15	DARJEELING	Nil	{ 4½ 5½° }	{ 4½ 5½° }	Potatoes, maize and <i>marua</i> are being harvested. Paddy is progressing well. Harvesting of winter rice has commenced in Terai. Stock of ordinary rice in Sadar is insufficient and that of Burma rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	(n)	(n)	{ 5 5½° }	
	Siliguri ...	Nil	{ 6 6° }	{ 4½ 6° }	
	Kalimpong...	Nil	{ 5 5½ }	{ 4½ 5½ }	

\*Burma rice.

† Coarse rice.

‡ Annas rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
16	RANGPUR ...	Inches Nil	{ 4½ 5° }	{ 4½ 5° }	Weather seasonable. Sowing of <i>rabi</i> crops is going on. Harvesting of jute is not completed yet at Gaibandha subdivision. Price of rice is stationary. Stocks of food-grains, fodder and water are sufficient.
	Nilphamari	Nil	{ 4½ 5° }	{ 4½ 5° }	
	Kurigram ...	Nil	{ 4 6° }	{ 4 5° }	
	Gaibandha ...	Nil	{ 4½ 5½° }	{ 4½ 5° }	
17	BOGRA ...	Nil	{ 4½ 5½° to 5½° }	{ 4½ 5½° to 5½° }	Prospects of winter paddy are fair, but absence of rain will affect its outturn. Sowing of <i>rabi</i> crops has commenced in places.
18	PABNA ...	Nil	{ 4½ 5½° }	{ 4½ 5½° }	Harvesting of <i>aman</i> paddy has begun in some places. Prospects of standing crops are good.
	Sirajganj ...	(n)	(n)	{ 3½ 5½° }	
19	MALDA ...	Nil	{ 5 6½° }	{ 5 6½° }	Sowing of <i>rabi</i> crops continues. Fodder and water are sufficient.
20	COOCH BEHAR	Nil	6½	7½	Weather seasonable. Washing of jute is nearly finished. Fodder is sufficient. Burma rice is not available.
21	DACCA ...	Nil	{ 5 5½° }	4½	Weather sunny and favourable for harvesting of early <i>aman</i> paddy. Prospects of winter rice are fair. Fodder is dear at Munshiganj subdivision. Water is sufficient.
	Manikganj ...	Nil	{ 4½ 5½° }	(n)	
	Narayanganj	Nil	{ 5 5½° }	(n)	
	Munshiganj (a)	Nil	{ 5 5½° }	(n)	
22	MYMENSINGH	Nil	{ 3½ 5½° }	{ 3½ 5½° }	Weather seasonable. Sowing of <i>rabi</i> crops and harvesting of broadcast <i>aman</i> are going on. Prospects of crops are fair. Fodder and water are sufficient.
	Jamalpur ...	Nil	{ 3½ 5½° }	{ 3½ 5½° }	
	Tangail ...	Nil	{ 4½ 5½° }	{ 3½ 5½° }	
	Netrakona ...	Nil	{ 4½ 5½° }	{ 3½ 5½° }	
	Kishorganj...	Nil	{ 4½ 5½° }	{ 4½ 5½° }	

(n) Not reported.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kaptai thana are reported here.

\* Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 4½ 5½ <sup>1</sup> }	{ 4½ 5½ <sup>1</sup> }	Effects of weather on the growth of the crops are favourable. Sowing of <i>rabi</i> crops and harvesting of early <i>aman</i> paddy continue. Prospects of standing crops are fair. Fodder is insufficient in Gopalganj subdivision.
	Goalundo ...	Nil	{ 5½ <sup>1</sup> 5½ <sup>1</sup> }	{ 4½ 5½ <sup>1</sup> }	
	Madaripur ...	Nil	{ 5½ <sup>1</sup> 5½ <sup>1</sup> }	{ 5 5½ <sup>1</sup> }	
	Gopalganj(a)	Nil	{ 5 6 <sup>1</sup> }	{ 5 6 <sup>1</sup> }	
24	BAKARGANJ (BARISAL).	Nil	{ 4½ 5½ <sup>1</sup> 6½ <sup>1</sup> }	{ 4 6½ <sup>1</sup> }	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	{ 4½ 6 <sup>1</sup> }	{ 4 }	
	Patuakhali ...	Nil	{ 4½ 5½ <sup>1</sup> 6 <sup>1</sup> }	{ 4½ 5½ <sup>1</sup> 6 <sup>1</sup> }	
	Dakshin Shabazpur (Bhola).	Nil	{ 5 5½ <sup>1</sup> }	{ 3½ 3½ <sup>1</sup> }	
25	CHITTAGONG	Nil	{ 6½ <sup>1</sup> 6½ <sup>1</sup> }	{ 5½ <sup>1</sup> 6 <sup>1</sup> }	Cultivation of <i>rabi</i> crops is in progress. Prospects of standing crops are fair. <i>Panga</i> salt is selling at 8½ and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 5½ <sup>1</sup> 6 <sup>1</sup> }	{ 5½ <sup>1</sup> 6 <sup>1</sup> }	
26	TIPPERA (COMILLA).	Nil	{ 6½ <sup>1</sup> 6½ <sup>1</sup> }	{ 5½ <sup>1</sup> 6 <sup>1</sup> }	Prospects of standing crops are favourable. Harvesting of early variety of <i>aman</i> paddy continues. Sowing of <i>rabi</i> crops is going on. Gratuitous relief discontinued in Brahmanbaria subdivision since 1st November. Cattle-disease is reported from Brahmanbaria subdivision.
	Brahmanbaria.	Nil	{ 6½ <sup>1</sup> 7½ <sup>1</sup> }	{ 4½ 5½ <sup>1</sup> }	
	Chandpur ...	Nil	{ 5 5½ <sup>1</sup> }	{ 5 5½ <sup>1</sup> }	
27	NOAKHALI ...	Nil	6	4½	Prospects of crops are not hopeful owing to damage in places caused by <i>ufra</i> and insect. Fodder is sufficient.
	Feni ...	Nil	7½	6	
28	CHITTAGONG HILL TRACTS.	Nil	{ 5½ <sup>1</sup> 7½ <sup>1</sup> 5 <sup>1</sup> }	{ 5½ <sup>1</sup> 7½ <sup>1</sup> 5 <sup>1</sup> }	Prospects of <i>aman</i> paddy are fair. Harvesting of <i>jhum</i> paddy is finished and that of cotton crop continues. Outturn is fair. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
<sup>1</sup> Burma rice.      † Local rice.      ‡ Aus rice.

J. C. ROY,  
 for Director of Agriculture, Bengal.

Dacca, the 10th November 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 8th November 1919.**

Name of Article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	9 4 0	9 8 0	0 3 0	0 4 6
" medium	9 12 0	10 0 0	0 3 6	0 5 0
Patnai, coarse	8 6 0	8 8 0	0 3 6	0 4 6
" medium	9 0 0	9 2 0	0 3 9	0 5 0
Nagra, coarse	8 12 0	8 14 0	0 3 6	0 4 6
" medium	9 0 0	9 4 0	0 4 0	0 5 0
Dudhkalma	9 0 0	9 4 0	0 3 0	0 4 0
Rangoon Boiled	.....	.....	0 3 0	0 3 6
Kajla	.....	.....	0 3 3	.....
Wheat, Dudhia	7 12 0	8 0 0	.....	.....
" Jamali	6 12 0	7 0 0	.....	.....
" Gangajali	.....	.....	.....	.....
Gram, Patnai (whole)	7 12 0	8 8 0	0 3 0	0 4 0
" dal	9 4 0	9 12 0	0 3 9	0 4 6
Mung " (Hari)	10 0 0	11 0 0	0 5 0	0 8 0
" (Krishna)	9 12 0	10 6 0	0 4 6	0 6 0
Arhar " "	8 4 0	11 8 0	0 3 9	0 5 0
Masur " (split)	7 12 0	8 12 0	0 3 3	0 4 0
" (Khanri)	11 8 0	12 4 0	0 4 6	0 5 0
Kalai " "	8 0 0	9 0 0	0 3 6	0 6 0
Salt	.....	.....	0 1 6	0 1 9
Sugar (Brown Java)	21 12 0	22 0 0	0 8 6	0 10 0
Gur, Bheli	.....	.....	0 4 6	.....
" Bhursut	11 0 0	11 6 0	0 5 0	0 6 6
Date	.....	.....	.....	.....
Milk	.....	.....	0 3 0	0 5 0
Mustard oil	35 8 0	38 4 0	0 15 0	1 4 0
Flour (country)	9 4 0	10 8 0	0 4 0	0 5 0
Atta, No. 3	7 4 0	.....	.....	.....
" " 2½	7 12 0	.....	0 3 3	0 5 0
" " B	10 12 0	.....	.....	.....
Suji	10 0 0	10 6 0	0 4 6	0 5 6
Ghee (Bhadwa, Matki, etc.)	89 4 0	90 0 0	2 4 0	2 8 0
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	84 4 0	85 8 0	2 3 0	.....
" (Lalli, Etwa, Sagar, etc.)	78 12 0	80 0 0	2 0 0	.....
Maize	6 0 0	6 8 0	.....	.....
Potato	7 0 0	8 4 0	0 3 0	0 4 6
Patal	6 4 0	7 0 0	0 3 6	0 4 0
Brinjal	3 4 0	3 8 0	0 2 0	0 3 0
Onion	4 4 0	4 8 0	0 1 6	0 2 6
Fish, Rahu	.....	.....	0 10 0	0 14 0
Mutton (2nd class)	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of price of the following markets :—

*Wholesale.*—Chetla Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets, Posta Bazar.

*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 8th November 1919.

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# The Calcutta Gazette

WEDNESDAY, NOVEMBER 19, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## RESOLUTION ON THE REPORT ON THE WORKING OF THE CO-OPERATIVE SOCIETIES IN BENGAL FOR THE YEAR ENDING THE 30TH JUNE 1919.

### GOVERNMENT OF BENGAL.

#### REVENUE DEPARTMENT.

#### Agricultural Branch.

CALCUTTA, THE 14TH NOVEMBER 1919.

RESOLUTION No. 8592.

#### READ—

The Report on the working of the Co-operative Societies in Bengal for the year ending the 30th June 1919.

1. One of the principal features of the previous year was the strain which had been put upon societies by the low price obtained by cultivators for their jute and rice; recoveries were seriously affected and societies showed caution in advancing loans. A sharp contrast is afforded by the report of the present year under review, when better prices were obtainable



for jute and the price of rice rose to unprecedented heights. Though the Registrar in his report makes certain reservations in drawing a deduction from these facts and points out that the bulk of the societies lie in jute areas, it is significant that the rise in the price of both the rice and jute produced by the members synchronised with an increase in the financial prosperity of the co-operative societies to which they belong.

2. During the year under report the increase in the number of societies was 615, in the number of members 16,021, and in the working capital Rs. 36,34,692, compared with 557 societies, 19,538 members and Rs. 41,68,578, the increase of the previous year. That there was no greater expansion is due to the care with which applications for societies have been scrutinised, a sound measure dictated by past experience of unsound societies formed in haste and in ignorance of the principles and duties of co-operation. With the increase in societies, the number of inspectors rose from 41 to 50 and honorary organisers from 45 to 48. The number of auditors rose from 14 to 28 and two divisional auditors were appointed in the year by Government. Audit is of the first importance; and it is satisfactory to learn that a proper detailed audit is now one of the chief features of the working of the department.

3. Repayments during the year were good; but, though there was a corresponding increase in advances, some caution was still exhibited in advancing loans. The central banks advanced Rs. 32½ lakhs and recovered Rs. 23 lakhs in 1918-19 against Rs. 18 lakhs and Rs. 10½ lakhs, respectively, in 1917-18. Similarly, the agricultural societies advanced Rs. 28 lakhs and recovered Rs. 23½ lakhs in 1918-19, against Rs. 23½ lakhs and Rs. 15½ lakhs, respectively, in the previous year. Two other satisfactory features are that the amount of loans overdue to such societies was reduced by Rs. 6 lakhs and that their reserve funds were increased from Rs. 9½ to Rs. 14½ lakhs.

4. The progress of the Bengal Provincial Co-operative Federation, Ltd., which was opened in the previous year, surpassed expectation. By the 30th June 1919, 49 central banks and 8 other societies had joined it. The Federation received Rs. 10½ lakhs of the idle funds of its members for investment and made repayments to the extent of Rs. 8 lakhs; and it saved one central bank from disaster during the year under review. Of the Rs. 13 lakhs of deposits taken out from central banks at a high rate of interest it repaid nearly Rs. 4 lakhs. The assertion of the Registrar that the Federation has already accomplished the purposes for which it was formed, viz., to keep money employed all the year round by the utilisation of the surplus funds of its members and to assist them in other ways as far as possible, appears therefore to be well founded.

5. The number of central banks increased from 52 to 58, their working capital from Rs. 67½ lakhs to Rs. 82½ lakhs, and their paid-up share capital from Rs. 10 lakhs to Rs. 11½ lakhs. At present only 14 of these banks have appointed paid secretaries or assistant secretaries. The number of unions decreased from 13 to 12 in the year under review; but they are reported to be neither successful nor popular in Bengal.

6. Agricultural societies have increased in numbers from 2,067 at the end of 1915-16 to 2,857, 3,374 and 3,923 at the end of the years 1916-17, 1917-18 and of the year under review, respectively. Practically all the new societies formed during the year were of the type based on shares, a type re-introduced during the year. Many of the old societies have also now adopted bye-laws providing for shares. During the year the membership increased from 1,25,590 to 1,34,755, and the working capital from Rs. 80½ lakhs to Rs. 92½ lakhs. Much good work was done by the department in the direction of the purification of societies. Large societies of which the membership was too large to admit of the members being thoroughly acquainted with one another were split up; but the most important work of this description was the nursing of bad societies in the attempt to improve them and the liquidation of incurably bad societies. No less than 81 societies were liquidated during the year, against 29 in the previous year; and, as a result of the facilities afforded by the Bengal Public Demands Recovery (Amendment) Act, 1918, realisations in societies under liquidation have been



more than three times as much as the total in all previous years. Most of the unsoundness in the bad societies is due to the dishonesty of office-bearers; but the hope may be confidently expressed that with the more stringent system of audit now in force, the prosecution of certain dishonest office-bearers and the awakening of the members of the societies to the fact of their unlimited liability, the day of dishonest office-bearers will be gone. It is gratifying to note that many instances of the excellent social, moral, and economic efforts of the societies continue to be reported. In particular, it is significant of the ultimate practical effect of the existence of the societies that in the Gaibandha subdivision a group of societies maintain that they have not only reduced the rates of interest normally charged in the area for themselves, but for all other residents in it.

7. Considerable activity was displayed during the year in the development of agricultural non-credit and non-agricultural societies, of which the number increased from 17 and 203, respectively, in the previous year to 31 and 262 in the year under review. First and foremost may be mentioned the Naogaon Ganja Cultivators' Co-operative Society, Ltd., which has successfully ousted the *ganja* brokers. During the year it realised a profit of Rs. 3 lakhs. Its activities are now being expanded in the direction of a purchase and sale society, cattle insurance, a demonstration farm, education, medicine, relief of distress and town improvement. In fact it is making a bid, justifiable both on the grounds of efficiency and financial stability, to monopolise the local self-government of the *ganja* mahals. Owing to the importance of its work Government has lent to the society the services of Khan Bahadur Ata-ur-Rahman, Deputy Collector, as its chief executive officer. Next in importance comes the development of the weaving industry, particularly in the district of Bankura. The number of weaving societies has increased from 65 to 100, 28 of which were added in Bankura; and towards the end of last year the organization of the Bankura Industrial Co-operative Union was effected. At the beginning of the year, however, the prospects of the union were blank owing to the fluctuations in the price of yarn and of piece-goods, but two good orders which were received about Christmas time were so well executed that they put the union on its feet. At the end of June 41 societies were affiliated to it. A credit of a lakh of rupees was given by the Federation and a guarantee against loss of a quarter of a lakh was given by Government to the union in order that it might give relief by employment to weavers during the famine in Bankura. The guarantee has not been drawn on. On the contrary a profit was made and 500 families of weavers were kept off the famine-relief works. The Governor in Council is indebted to the Revd. Mr. A. E. Brown and Professor Banerjee for the success of this scheme. Nevertheless there are still many obstacles to the development of these weaving societies in Bankura to be surmounted by co-operation. Amongst other societies may be mentioned the milk societies in the neighbourhood of Calcutta which are beginning to be reckoned with as of importance in connection with the supply of pure milk to Calcutta; the Sundarbans Supply and Sale Society at Khepupara which cleared a profit of Rs. 6,000 over its rice transactions; the Khelar Irrigation Society in Midnapore where the fields irrigated by the society yielded four or five times as much rice per bigha as the adjoining lands which were affected by drought; and the Central Co-operative Anti-malaria Society which was organised at the end of the year with the object of propagating the formation of primary anti-malaria societies in the mufassal and to assist them when formed. Several eminent medical men are associated with this society.

8. The Bengal Co-operative Organisation Society has attracted to itself representative men from the land-owning, mercantile and professional classes and has completed a year of useful propaganda. The circulation of the Bengal and Bihar and Orissa Co-operative Journal, which it took over, has increased, whilst its Bengali equivalent, the "*Bhandar*," is much appreciated by an increasing circle of readers. Three pamphlets were published by the society during the year and arrangements were made for a course of public lectures on co-operation. As a result of a University conference



held under its auspices, a committee was appointed for propaganda in the University and colleges. The society also participated in the Dacca, Mymensingh, Howrah and Khulna exhibitions. The Governor in Council is glad to notice that so much useful work has been done by the society. At the Tenth Provincial Conference of co-operative societies, which was opened by His Excellency fifteen resolutions were passed and are now under consideration.

9. The Governor in Council congratulates Mr. Donovan on the energy and enthusiasm shown by himself and his officers in the promotion of the various aspects of the co-operative movement in Bengal. His thanks are due to Professors Coyajee and Mukharji for the services rendered by them in connection with the Co-operative Journal. His Excellency in Council also records his appreciation of the help afforded by the ever-increasing number of persons interested in the movement; in particular, he is pleased to notice that several well-known zamindars are showing activity in their sympathy towards it.

By order of the Governor in Council,

M. C. McALPIN,  
*Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE REPORT OF THE BOARD OF REVENUE  
ON THE ADMINISTRATION OF WARDS', ATTACHED AND  
TRUST ESTATES IN THE PRESIDENCY OF BENGAL FOR  
THE BENGALI YEAR 1325 (1918-19).**

**GOVERNMENT OF BENGAL.**

**REVENUE DEPARTMENT.**

**Land Revenue Branch.**

CALCUTTA, THE 14TH NOVEMBER 1919.

RESOLUTION—No. 8513.

READ—

The report of the Board of Revenue on the administration of Wards', Attached and Trust Estates in the Presidency of Bengal for the Bengali year 1325 (1918-19).

**Number of estates under management.**—Four new estates were brought under the Court of Wards and one estate was released free from debt during the year. As the Jessore portion of the Janbazar estate No. 1 is now treated as a separate estate, 69 estates were under the management of the Court of Wards at the close of the year, against 64 in the preceding year.

**2. Payment of revenue and cesses.**—The total amount of revenue and cesses due to Government, including arrears, was Rs. 14,69,169. Payments amounted to Rs. 13,65,169 or 92·9 per cent. as in the previous year. The heaviest balances were again due by the Tagore estate in Bakarganj.

**3. Rent and Cesses due to Superior Landlords.**—The percentage of payment of rent and cesses to superior landlords showed some decrease, being 82·5 per cent. of the amount due, against 84·8 per cent. in the previous year. The balance of Rs. 1,12,278 out of a total demand of Rs. 6,44,581 is due mainly to non-adjustment of accounts, accumulation of petty dues allowed by superior landlords, failure of co-sharers to pay their share of dues, and certain pending civil suits.

**4. Collection of rents and cesses.**—Despite the bad monsoon and poor rice harvest of the year under report, there was some improvement in the percentage of collection on current demand, which rose from 98·4 in the preceding year to 103·5. The standard of 100 per cent. was exceeded in 40 estates. The improvement in collection was mainly contributed by the Nawab family estate in Dacca and the estates in the Rajshahi Division. The collections in the Kasimbazar estate in the district of Tippera were, on the other hand, affected by the distress in the Brahmanbaria subdivision. Elsewhere the gloomy character of the last part of the year under review is reflected in the report in only one or two instances.

**5.** The outstanding balances due to all the estates aggregated over Rs. 67 lakhs, representing 147·2 per cent. on the current demand, against 141·5 per cent. in the previous year. The balances exceeded the current demand in all the divisions. In the report of the previous year the Board anticipated that some progress could be made in writing-off fictitious or irrecoverable items, which account for at least 30 per cent. of the balances; but it is now reported that the managers show a strong prejudice against applying for their remission. In the interests of good estate management it is obvious that such items should be written off, when such a course is admissible.

**6. Civil Suits.**—The number of civil suits and certificates filed during the year for the recovery of rent and cesses increased by 1,241 and 1,600 over those of the preceding year. Out of 5,389 civil suits for disposal, 4,352 were decided, but less than one-third of the decretal amount was realised. Of the total number of 35,641 certificates for disposal 21,640 were disposed of, and 57·1 per cent. of the total claim was realised against 63·6 per cent. in the previous year.



7. **Debts of estates.**—The total liabilities of the estates under the management of the Court of Wards stood at over Rs. 58 lakhs, against nearly Rs. 82 lakhs in the previous year. The decrease is due largely to the exclusion of the claims preferred by the proprietors of the Bhawal estate against one another, a considerable amount of which has proved to be fictitious. With a few exceptions all the estates in the Presidency are more or less heavily encumbered, though considerable reductions have already been effected by good management. The indebtedness of Wards' estates has been a special subject of scrutiny and examination by the Board during the year under report, and a regular and systematic scheme for the repayment of debts is in preparation. Two new appendices showing clearly the financial position of the different estates and the progress in the repayment of debts are a marked feature of the report.

8. **Cost of management and expenditure on improvements.**—There was a slight decrease in the percentage of cost of management on the current rent and cess demand of estates, viz., from 13·2 in the preceding year to 13·1. The standard of 10 per cent., now regarded as obsolete, was exceeded in all the divisions except the Presidency Division. The estates set a good example by the good work done on agricultural, sanitary and other improvements, and in education. The total expenditure on improvements, schools and dispensaries was Rs. 1,70,158, or 3·7 per cent. of the current demand. Agricultural demonstrations in Wards' estates are now conducted mostly under the supervision of officers of the Agricultural Department, with encouraging results.

9. **Education of wards.**—The progress made in the education of wards, which is one of the special cares of the Court, was generally good. It is satisfactory to note that two of the wards were sent to the annual survey and settlement training camp and that others are being trained in zamindari management, so as to make them fit for, and useful in, their future position in life as, it is to be hoped, resident proprietors.

10. The thanks of the Governor in Council are due to the Board of Revenue for its efficient administration of the estates under the Court of Wards. The good work of the managers mentioned in the report will be noted.

By order of the Governor in Council,

M. C. McALPIN,

*Secy. to the Govt. of Bengal.*



# MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR OCTOBER 1919.

**I. Character of the Season.**—During the month the rainfall was above the average in seven districts and elsewhere below the normal. The usual rainfall statement is appended.

**II. Progress of Agricultural Operations.**—Preparatory tillage for the spring crops, harvesting of early winter paddy and sowing of potatoes, oil-seeds, pulses continued. Steeping and washing of jute were completed.

**III. State of Standing Crops.**—The condition of winter paddy, sugarcane and other standing crops was generally reported to be satisfactory. More rain in the western districts would have benefitted the transplanted paddy on high lands which suffered to some extent owing to drought.

**IV. Prospects and Probable Outturn.**—The rain in both Northern and Eastern Bengal greatly improved the prospects of winter paddy. The prospects of sugarcane and other standing crops reported to be promising on the whole.

**V. Damage to Standing Crops.**—“Ufra” disease was reported to have caused some damage to standing crops in Noakhali. Some damage to transplanted paddy was caused in *char lands* in Jamalpur subdivision of Mymensingh district owing to the rise of rivers.

**VI. Condition of Agricultural Stock.**—The condition of livestock was reported to be fair. Cattle disease was, however, reported from places in the districts of Rangpur, Darjeeling, Malda, Dacca, Mymensingh and Tippera.

**VII. Failure of Pasturage and Fodder.**—The supply of fodder was sufficient throughout the province.

**VIII. Price of Food-Grains.**—During the month under review the price of common rice for the province rose in the district of Mymensingh, fell in eight districts and remained stationary elsewhere. It varied from four seers a rupee in Darjeeling, Rangpur and Mymensingh to seven seers a rupee in the Chittagong Hill Tracts.

**IX. Condition of Agricultural People.**—Distress continued to prevail in the Brahmanbaria subdivision of Tippera district. Relief measures continued.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

DACCA :

The 15th November 1919.

## Statement showing the normal and actual Rainfall in each district during October 1919.

Division.	District.	Normal district rainfall for the month of October.	Actual district rainfall for the month of October 1919.	Variation from the normal.	Division.	District.	Normal district rainfall for the month of October.	Actual district rainfall for the month of October 1919.	Variation from the normal.
		Inches.	Inches.	Inches.			Inches.	Inches.	Inches.
Presidency	24 Parganas	4.64	1.67	- 2.97	Rajshahi— conc'd.	Rangpur	4.72	2.21	+ 2.51
	Calcutta	2.82	0.46	- 2.36		Bogra	4.20	2.10	- 2.10
	Nadla	2.66	1.25	- 1.41		Falga	4.21	2.68	- 1.53
	Murshidabad	2.46	0.89	- 1.57		Malda	2.41	4.38	+ 1.97
	Jessore	4.22	2.18	- 2.04	Dacca	Dacca	4.68	2.69	- 1.99
Burdwan	Khulna	2.04	0.93	- 1.11		Mymensingh	4.95	2.72	- 2.23
	Burdwan	2.48	2.24	- 0.24		Faridpur	2.25	2.42	- 0.17
	Birbhum	2.19	2.74	+ 0.55		Bakarganj	2.25	2.66	- 0.41
	Bankura	2.76	1.98	- 0.78	Chittagong	Chittagong	7.21	2.06	- 5.15
	Midnapore	4.66	1.22	- 3.44		Tippera	5.17	2.68	- 2.49
Rajshahi	Hooghly	2.72	0.85	- 1.87		Noakhali	2.06	2.68	- 0.62
	Howrah	2.66	1.96	- 0.70		Chittagong Hill Tracts	7.01	2.68	- 4.33
	Rajshahi	2.59	4.64	+ 2.05		Oooh Behar	2.62	10.25	+ 7.63
	Dinajpur	2.47	4.00	+ 1.53					
	Jalpaiguri	2.19	0.84	- 1.35					
	Darjeeling	4.62	1.70	- 2.92					



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 15th November 1919.**

Name of article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER MAUND.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	8 8 0	9 8 0	0 3 6	0 4 6
„ medium ...	9 12 0	10 0 0	0 3 9	0 5 0
Patnai, coarse ...	6 10 0	8 8 0	0 3 0	0 4 6
„ medium ...	8 14 0	9 0 0	0 3 6	0 5 0
Nagra, coarse ...	8 0 0	8 8 0	0 3 6	0 4 6
„ medium ...	8 10 0	9 2 0	0 3 9	0 5 0
Dudhkalma ...	8 14 0	9 0 0	0 3 6	.....
Rangoon Boiled ...	.....	.....	0 2 6	0 3 3
Kajla ...	6 4 0	.....	0 3 0	.....
Wheat, Dudhia ...	7 12 0	8 0 0	.....	.....
„ Gangajali ...	.....	.....	.....	.....
„ Jamali ...	7 0 0	7 4 0	.....	.....
Gram, Patnai (whole) ...	7 12 0	8 12 0	0 3 0	0 4 0
„ dal ...	8 12 0	9 8 0	0 4 0	0 5 0
Mung „ (Hari) ...	11 0 0	12 0 0	0 6 0	0 8 0
„ „ (Krishna) ...	8 12 0	9 8 0	0 5 0	0 6 0
Arhar „ ...	8 4 0	11 4 0	0 3 6	0 5 0
Masur „ (split) ...	7 14 0	8 10 0	0 3 3	0 4 6
„ „ (Khanri)...	11 4 0	12 0 0	0 5 0	.....
Kalai „ ...	7 8 0	8 8 0	0 3 0	0 5 0
Salt ...	3 3 0	3 6 0	0 1 6	0 1 9
Sugar (Brown Java) ...	22 10 0	24 4 0	0 9 0	0 10 0
Gur, Bheli ...	.....	.....	0 4 6	.....
„ Bhursut ...	11 8 0	12 0 0	0 7 0	.....
Date ...	.....	.....	.....	.....
Milk ...	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil ...	36 0 0	39 0 0	0 15 0	1 2 0
Flour (country) ...	9 11 0	10 5 0	0 4 0	0 5 0
Atta, No. 3 ...	7 6 0	} .....	0 3 6	0 5 0
„ „ 2½ ...	7 14 0			
„ „ B ...	10 8 0			
Suji ...	10 2 0	10 12 0	0 4 6	0 5 6
Ghee (Bhadwa, Matki, etc.) ...	90 8 0	92 0 0	3 6 0	.....
„ (Patiram, Khurja, Ruto, Etwa, better kind, etc.) ...	85 0 0	86 0 0	2 4 0	.....
„ (Lalli, Etwa, Sagur, etc.)...	79 0 0	80 0 0	2 3 0	.....
Maize ...	5 4 0	6 4 0	.....	.....
Potato ...	5 12 0	7 0 0	0 3 0	0 6 0
Patal ...	7 0 0	8 0 0	0 3 6	0 4 0
Brinjal ...	3 0 0	3 2 0	0 1 6	0 2 0
Onion ...	4 2 0	4 6 0	0 2 0	0 2 6
Fish, Rahu ...	15 0 0	20 0 0	0 8 0	0 14 0
Mutton (2nd class) ...	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes) ...	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of price of the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.  
*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 17th November 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 13th November 1919.

**Summary.**—The week was practically rainless. Harvesting of winter paddy continues. Sowing of potatoes, tobacco, wheat and oilseeds is progressing favourably. The prospects of standing crops are generally reported to be hopeful. The average price of common rice for the province has fallen by about 0.43 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
1	24-PARGANAS	Inches.	{ 5 6½ }	{ 4½ 6½ }	Steeping of jute is over. <i>Rabi</i> crops are being sown. Harvesting of sugarcane continues. Water is sufficient.
	Diamond Harbour.	(n)	(n)	(n)	
	Barrackpore	(n)	(n)	{ 4½ 6 }	
	Barasat ...	Nil	4½	4½	
	Basirhat ...	Nil	5½	{ 5½ 6 }	
2	NADIA ...	Nil	{ 5 6½ }	{ 4½ 6½ }	Weather cloudy. Prospects of standing crops are less favourable than before. Rain is badly wanted for the sowing of <i>rabi</i> crops. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	Nil	{ 5 7 }	{ 5 5½ }	
	Meherpur ...	Nil	{ 5½ 5½ }	{ 6 5½ }	
	Chuadanga ...	Nil	{ 5½ 6 }	{ 5 5 }	
	Ranaghat ...	Nil	{ 4½ 6 }	{ 4½ 6 }	
3	MURSHIDABAD	Nil	5†	5†	Weather cloudy. Prospects of standing crops are fair. Rain is wanted in some parts for <i>aman</i> paddy. Burma rice is not available. Sowing of <i>rabi</i> crops continues. Fodder is sufficient. No large import or export of rice.
	Lalbagh ...	Nil	5½†	5½†	
	Jangipur ...	Nil	5½†	5½†	
	Kandi ...	Nil	5½†	(n)	
4	JESSORE ...	0.08	{ 6 6 }	{ 6½ 6 }	Standing crops are doing well. Sowing of <i>rabi</i> crops continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	Nil	5	(n)	
	Magura ...	Nil	5½	5	
	Narail ...	Nil	{ 6½ 6½ }	{ 5½ 5½ }	
	Bangaon ...	Nil	6	5½	
5	KHULNA ...	0.01	{ 4½ 6½ }	{ 4½ 6 }	Weather cloudy. Harvesting of early <i>aman</i> is in progress. Fodder and water are sufficient.
	Satkhira ...	Nil	{ 5 5½ }	{ 5 5 }	
	Bagerhat ...	Nil	{ 5½ 5½ }	{ 5½ 6½ }	
6	BURDWAN ...	Nil	5	4½	Weather cloudy. Winter paddy has been partially damaged owing to drought; the prospects of the crop are excellent in Asansol, fair in Katwa, and bad in Kalna and Sadar subdivisions. Sowing of potatoes has commenced.
	Asansol ...	Nil	5½	5	
	Katwa ...	Nil	5	5	
	Kalna ...	Nil	4½	4½	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER MUPH.		Character of the weather condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
7	BIRBHUM ...	Inches Nil	6	5½	Weather cloudy. <i>Aman</i> paddy is being harvested. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	Nil	6	5½	
8	BANKURA ...	0·02	5½	5	Export of rice and paddy is going on. Reaping of early <i>aman</i> paddy continues.
	Vishnupur...	Nil	5½	5½	
9	MIDNAPORE	0·04	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 6½ <sup>3</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 6½ <sup>3</sup> / <sub>8</sub> }	Weather cloudy. Prospects of winter rice are fair. Sowings of summer rice, tobacco, mustard, rape and linseed continue.
	Ghatal ...	Nil	{ 5 5½ <sup>1</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	
	Tamluk ...	0·01	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	
	Contai ..	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 5 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	
			{ 5½ <sup>1</sup> / <sub>8</sub> }	{ 5½ <sup>1</sup> / <sub>8</sub> }	
10	HOOGHLY ...	Nil	{ 4½ <sup>7</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> to 6½ <sup>3</sup> / <sub>8</sub> }	{ 4½ <sup>7</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> to 6½ <sup>3</sup> / <sub>8</sub> }	Effects of weather on the growth of the crops are unfavourable. Fodder is sufficient.
	Serampore ...	Nil	{ 5 6 }	{ 4½ <sup>1</sup> / <sub>8</sub> 6 }	
	Arambagh ...	Nil	5	5½	
11	HOWRAH ...	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 6½ <sup>3</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 6½ <sup>3</sup> / <sub>8</sub> }	Weather cloudy. Sowing of pulses continues. Prospects of sugarcane and paddy are fair. Fodder is sufficient.
	Ulubaria ..	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 6½ <sup>3</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 6½ <sup>3</sup> / <sub>8</sub> }	
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops continues. Fodder is sufficient.
	Naogaon ...	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	
	Nator ...	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	
13	DINAJPUR ...	Nil	5½	4½	Weather seasonable. Prospects of standing crops are fair. Rice market is falling owing to import of Burma rice.
	Thakurgaon	Nil	5	5	
	Balurghat ...	Nil	5	4½	
14	JALPAIGURI...	Nil	{ 4 6 }	{ 4 6 }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	0·15	{ 4 6 }	{ 4 6 }	
15	DARJEELING	Nil	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 4½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	Winter paddy, millet and <i>marua</i> are being harvested in places. Winter potatoes are growing well. Stock of ordinary rice in Sadar is insufficient and that of Burma rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	{ 5 5½ }	{ (n) 6 }	
	Siliguri ...	Nil	{ 5 6 }	{ 6 6 }	
	Kalimpong...	Nil	{ 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	{ 5½ <sup>1</sup> / <sub>8</sub> 5½ <sup>1</sup> / <sub>8</sub> }	

\* Burma rice.

† Coarse rice.

‡ Fine rice.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
16	RANGPUR ...	Nil	{ 4½ 5½ }	{ 4½ 5 }	Weather cloudy. Sowing of <i>rabi</i> crops is in progress. Harvesting of winter paddy has commenced in the southern part of the Kurigram subdivision. Price of rice is stationary. Stocks of food-grains, fodder and water are sufficient.
	Nilphamari	Nil	{ 4½ 5½ }	{ 4½ 4 }	
	Kurigram ...	Nil	{ 4 6 }	{ 4 6 }	
	Gaibandha...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
17	BOGRA ...	0·01	{ 4½ 5½ to 5½ }	{ 4½ 5½ to 5½ }	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops continues.
18	PABNA ...	Nil	{ 4½ 6 }	{ 4½ 5½ }	Condition of standing crops is good. Fodder is sufficient.
	Sirajganj ...	Nil	{ 4½ 6 }	(n)	
19	MALDA ...	Nil	{ 5 6½ }	{ 5 6½ }	Weather cloudy. Sowing of <i>rabi</i> crops continues. Prospects of standing crops are good. Fodder and water are sufficient.
20	COOCH BEHAR	Nil	5½	6½	Weather seasonable. Transplantation of tobacco seedlings and sowing of mustard seeds continue. Fodder and water are sufficient. Burma rice is not available.
21	DACCA ...	Nil	{ 5 6 }	{ 5 5½ }	Weather favourable for harvesting of early <i>aman</i> paddy and for sowing of <i>rabi</i> crops. Condition of standing crops is good. Early <i>aman</i> paddy is coming into market. Fodder and water are sufficient.
	Manikganj ...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
	Narayanganj	Nil	{ 4½ 5½ }	{ 5 5½ }	
	Munshiganj (a)	Nil	{ 5 6 }	{ 5 5½ }	
22	MYMENSINGH	Nil	{ 3½ 5½ }	{ 3½ 5½ }	Weather cloudy and rainy. Sowing of <i>rabi</i> crops and harvesting of broadcast <i>aman</i> are going on. Prospects of crops are fair. Fodder and water are sufficient. One case of rinderpest has been reported from Netrakona subdivision.
	Jamalpur ...	Nil	{ 3½ 6½ }	{ 3½ 5½ }	
	Tangail ...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
	Netrakona ...	Nil	{ 4½ 6½ }	{ 4½ 5½ }	
	Kishorganj...	Nil	{ 4½ 6 }	{ 4½ 5½ }	

(n) Not reported.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.

\* Burma rice.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 4½ 6½ }	{ 4½ 5½ }	Weather cloudy during latter part of the week. Sowing of <i>rabi</i> crops is nearly finished. Harvesting of <i>aman</i> paddy continues. Prospects are fair. Cattle-disease is reported from Sibchar and Bhadarganj thanas. Fodder is insufficient in Gopalganj subdivision.
	Goalundo ...	Nil	{ 5½ 6 }	{ 5½ 5½ }	
	Madaripur ...	Nil	{ 4½ 5½ }	{ 5½ 5½ }	
	Gopalganj(a)	Nil	{ 5½ 6½ }	{ 5½ 6 }	
24	BAKARGANJ (BARISAL).	Nil	{ 3½ 6 }	{ 4½ 5½ }	Weather cloudy and unseasonable. Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	{ 3½ 6 }	{ 4½ 6 }	
	Patuakhali ...	Nil	{ 4 5½ }	{ 4½ 5½ }	
	Dakshin Shabazpur (Bhola).	Nil	{ 4½ 4½ }	{ 5 5½ }	
25	CHITTAGONG	Nil	{ 6½ 6½ }	{ 6½ 6½ }	Cultivation of <i>rabi</i> crops is in progress. Prospects of standing crops are fair. Harvesting of early <i>aman</i> paddy has commenced. <i>Panga</i> salt is selling at 8 and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 5½ 6 }	{ 5½ 6 }	
26	TIPPERA (COMILLA).	Nil	{ 6½ 6½ }	{ 6½ 6½ }	Prospects of standing crops are hopeful. Harvesting of early variety of <i>aman</i> paddy continues. Sowing of <i>rabi</i> crops is going on.
	Brahmanbaria.	Nil	{ 5½ 6½ }	{ 6½ 7½ }	
	Chandpur ...	Nil	{ 6½ 6½ }	{ 5 5½ }	
27	NOAKHALI ...	0.05	6	6	Weather cloudy. Prospects of winter paddy are not hopeful. Fodder is sufficient.
	Feni ...	Nil	6½	7½	
28	CHITTAGONG HILL TRACTS.	0.06	{ 5 6½ }	{ 5½ 7½ }	Weather cloudy. Rain is wanted. Prospects of <i>aman</i> paddy are fair. Harvesting of cotton crop continues; the cloudy weather is damaging the outturn to some extent. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
 \* Burma rice. † Local rice. ‡ Aur rice.

J. O. ROY,

for Director of Agriculture, Bengal.

Dacca, the 17th November 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of October 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
1	2	3	4	5	6	7	8
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 10 0	4 10 0	3 4 0	3 0 0	2 8 0	4 0 0	.....
Chetla Hât ...	.....	.....	.....	.....	.....	.....	.....
Bardwan ...	4 14 0	4 14 0	2 6 0	2 2 0	2 12 0	3 14 0	.....
Kalna ...	.....	.....	.....	.....	.....	.....	.....
Raniganj ...	.....	.....	.....	.....	.....	.....	.....
Midnapore ...	4 12 0	4 12 0	3 2 0	2 4 0	2 11 0	3 6 0	.....
Chittagong ...	(c)	(c)	(c)	.....	.....	(c)	.....
Chandpur ...	.....	.....	.....	.....	.....	.....	.....
Dacca ...	5 14 0	5 4 0	2 12 0	3 0 0	3 6 0	4 2 0	.....
Narayanganj ...	.....	.....	.....	.....	.....	.....	.....
Mymensingh ...	.....	.....	.....	.....	.....	.....	.....
Madaripur ...	.....	.....	.....	.....	.....	.....	.....
Pabna ...	5 4 0	5 8 0	3 0 0	2 12 0	3 2 0	3 8 0	.....
Sirajganj ...	.....	.....	.....	.....	.....	.....	.....
Rangpur ...	5 12 0	5 12 0	2 12 0	3 14 0	3 12 0	3 6 0	.....

\* Figures not available.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 12 0	2 8 0	3 4 0	3 12 0	.....
Chetla Hât ...	.....	.....	.....	.....	.....	.....	.....
Bardwan ...	4 12 0	4 12 0	2 6 0	2 0 0	3 4 0	3 10 0	.....
Kalna ...	.....	.....	.....	.....	.....	.....	.....
Raniganj ...	.....	.....	.....	.....	.....	.....	.....
Midnapore ...	4 10 0	4 10 0	3 0 0	1 14 0	2 10 0	3 0 0	.....
Chittagong ...	(c)	(c)	2 2 0	.....	.....	(c)	.....
Chandpur ...	.....	.....	.....	.....	.....	.....	.....
Dacca ...	5 8 0	5 12 0	2 9 0	2 8 0	3 4 0	3 14 0	.....
Narayanganj ...	.....	.....	.....	.....	.....	.....	.....
Mymensingh ...	.....	.....	.....	.....	.....	.....	.....
Madaripur ...	.....	.....	.....	.....	.....	.....	.....
Pabna ...	4 9 0	4 10 0	2 10 0	2 6 0	3 0 0	3 2 0	3 0 0
Sirajganj ...	.....	.....	.....	.....	.....	.....	.....
Rangpur ...	5 0 0	5 0 0	2 6 0	2 14 0	3 0 0	2 4 0	3 0 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of October 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	7 8 0	7 0 0	7 14 0	8 4 0	7 8 0
Ohelia Hât ...	...	...	...	...	...	...	...
Burdwan ...	8 10 0	8 10 0	5 14 0	6 2 0	9 4 0	8 8 0	5 8 0
Kalna ...	...	...	...	...	...	...	...
Baiganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0	9 0 0	8 0 0	8 0 0	6 4 0	7 8 0	5 2 0
Ohittagong ...	13 0 0	13 0 0	8 0 0	7 0 0	9 0 0	10 0 0	8 0 0
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	10 0 0	10 10 0	6 0 0	6 0 0	8 8 0	7 8 0	6 0 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Maderipur ...	...	...	...	...	...	...	...
Pabna ...	9 0 0	10 0 0	6 4 0	7 8 0	7 8 0	8 12 0	8 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	12 8 0	12 8 0	7 0 0	7 8 0	7 4 0	7 12 0	7 8 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	5 12 0	5 4 0	6 3 0	7 8 0	5 12 0
Ohelia Hât ...	...	...	...	...	...	...	...
Burdwan ...	7 10 0	7 14 0	4 12 0	3 12 0	5 0 0	5 8 0	4 8 0
Kalna ...	...	...	...	...	...	...	...
Baiganj ...	...	...	...	...	...	...	...
Midnapore ...	5 12 0	3 0 0	3 0 0	4 2 0	5 4 0	6 4 0	5 0 0
Ohittagong ...	8 0 0	8 0 0	5 0 0	4 4 0	5 4 0	5 8 0	5 0 0
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	9 8 0	10 0 0	5 8 0	5 8 0	6 2 0	7 0 0	5 10 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Maderipur ...	...	...	...	...	...	...	...
Pabna ...	7 14 0	7 14 0	4 8 0	4 8 0	5 8 0	6 2 0	5 4 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 12 0	10 12 0	5 8 0	5 8 0	5 12 0	7 0 0	6 0 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of October 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	33	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	7 8 0	8 0 0	4 5 0	5 0 0	4 2 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 12 0	7 4 0	(a)	8 0 0	5 0 0	5 10 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 8 0	8 8 0	5 12 0	5 0 0	5 12 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	5 0 0
Narayanpuri ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Fabna ...	6 12 0	7 0 0	...	4 0 0	...	4 12 0	3 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	8 0 0	7 3 0	5 12 0	5 0 0	5 8 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 8 0	8 8 0	9 0 0	5 8 0	5 8 0	5 12 0	...
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	8 0 0	9 0 0	4 10 0	5 8 0	6 8 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0 to 11 0 0	10 0 0 to 11 0 0	8 8 0 to 11 0 0	5 12 0	4 4 0	4 8 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanpuri ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Fabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	8 8 0	5 0 0	7 8 0	6 8 0	...

• Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of October 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	3 8 0	3 10 0	3 14 0	4 10 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	6 12 0	6 12 0	5 8 0	4 0 0	3 14 0	4 4 0	5 1 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0	8 0 0	5 8 0	4 4 0	3 14 0	4 12 0	...
Chittagong ...	to 8 4 0	to 8 8 0	to 7 0 0	4 8 0	to 4 2 0	5 8 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	6 0 0	6 4 0	7 10 0	7 0 0	...

Marts.	ANJAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	8 12 0	5 8 0	5 4 0	6 6 0	5 14 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	9 12 0	9 12 0	8 14 0	4 8 0	5 8 0	6 0 0	6 2 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 0 0	11 0 0	8 0 0	5 0 0	5 4 0	6 12 0	...
Chittagong ...	to 12 0 0	to 12 0 0	7 12 0	to 6 8 0	to 6 8 0	7 0 0	7 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 0 0	10 0 0	8 8 0	6 0 0	6 0 0	7 8 0	6 2 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	12 0 0	12 8 0	7 4 0	6 0 0	6 0 0	8 12 0	6 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	6 8 0	7 0 0	7 8 0	6 12 0	6 4 0

(a) Not available.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of October 1919.**

Marts.	LINSBED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	59	59	60	61	62	62	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 8 0	11 8 0	11 8 0	8 8 0	9 0 0	8 0 0	8 8 0	25 0 0	25 0 0	40 0 0
Chota Hat	...	...	...	...	...	...	...	...	...	...	...	...
Burdwan	11 8 0 to 12 0 0	11 0 0 to 12 0 0	...	12 8 0 to 14 0 0	13 0 0 to 14 0 0	10 0 0	8 0 0	8 0 0	11 0 0	(a).....	(a).....	(a).....
Lala	...	...	...	...	...	...	...	...	...	...	...	...
Baiganj	...	...	...	...	...	...	...	...	...	...	...	...
Midnapore	7 8 0	7 8 0	7 0 0	14 4 0 to 16 0 0	14 4 0 to 16 0 0	10 8 0 to 11 12 0	11 0 0	10 8 0	8 8 0	40 0 0	40 0 0	50 0 0
Chittagong	15 0 0	15 0 0	10 0 0	14 0 0	14 0 0	9 8 0	12 0 0	12 0 0	8 8 0	(b).....	(b).....	(b).....
Chandpur	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	15 0 0	15 0 0	6 8 0	13 0 0	13 0 0	9 8 0	18 0 0	14 12 0	10 4 0	...	...	...
Baranagari	...	...	...	...	...	...	...	...	...	...	...	...
Myrnsingh	...	...	...	...	...	...	...	...	...	...	...	...
Nadarpur	...	...	...	...	...	...	...	...	...	...	...	...
Paba	(a).....	15 0 0	7 0 0	13 8 0	14 10 0	9 10 0	10 10 0	10 10 0	9 3 0	...	...	...
Baiganj	...	...	...	...	...	...	...	...	...	...	...	...
Bangpur	...	...	...	14 8 0	14 8 0	7 8 0	13 0 0	13 0 0	8 0 0	...	...	...

Marts.	JUTE.			GHEK.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	12 0 0	78 0 0	78 0 0	72 0 0	450 0 0	450 0 0	450 0 0
Chota Hat	...	...	...	...	...	...	...	...	...
Burdwan	(a).....	(a).....	(a).....	74 0 0	74 0 0	70 0 0	(a).....	(a).....	40 0 0
Lala	...	...	...	...	...	...	...	...	...
Baiganj	...	...	...	...	...	...	...	...	...
Midnapore	8 0 0	8 8 0	8 0 0	80 0 0 to 86 0 0	80 0 0 to 86 0 0	75 0 0 to 80 0 0	400 0 0	400 0 0	225 0 0
Chittagong	...	...	...	85 0 0	86 0 0	75 0 0	375 0 0	275 0 0	200 0 0
Chandpur	3 0 0 to 12 0 0	5 0 0 to 12 8 0	8 4 0 to 12 0 0	76 0 0	76 0 0	65 0 0	...	...	...
Dacca	...	...	...	...	...	...	...	...	...
Baranagari	5 0 0 to 11 0 0	4 8 0 to 12 0 0	9 12 0 to 12 4 0	...	...	...	...	...	...
Myrnsingh	5 0 0 to 12 0 0	7 0 0 to 10 0 0	8 0 0 to 10 0 0	...	...	...	...	...	...
Nadarpur	4 0 0 to 12 0 0	6 0 0 to 10 0 0	8 12 0 to 12 12 0	...	...	...	...	...	...
Paba	...	...	...	80 0 0	80 0 0	65 0 0	...	...	...
Baiganj	5 0 0 to 9 0 0	5 0 0 to 7 0 0	8 0 0 to 10 0 0	75 0 0	75 0 0	62 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0
Bangpur	...	...	...	...	...	...	...	...	...

(a) Not available.

(b) None.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of October 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	9 0 0	35 0 0	3 6 0	3 7 0	3 12 0	3 12 0(a)	3 12 0(a)	3 2 0
Chetta Hat	...	...	...	...	...	...	...	...	...
Burdwan	14 0 0	14 0 0	25 0 0 to 28 0 0	3 8 0	3 8 0	3 12 0	3 2 0(b)	3 2 0(b)	4 1 0
Kalna	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...
Midnapore	3 0 0 to 12 0 0	3 0 0 to 12 0 0	3 0 0 to 24 0 0	3 10 0	3 10 0	4 0 0	4 2 0(b)	4 2 0(b)	4 2 0
Chittagong	18 0 0	18 0 0	20 0 0	4 4 0	4 4 0	3 3 0	3 0 0	3 0 0	2 0 0
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	...	...	...	4 8 0	4 8 0	4 8 0	4 2 0(d)	4 2 0(d)	4 8 0
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	18 0 0 to 18 0 0	18 0 0 to 18 0 0	24 0 0	4 0 0	4 0 0	4 4 0	4 2 0	4 2 0	4 2 0
Sirajganj	...	...	...	...	...	...	...	...	...
Raipur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 8 0	4 4 0(A)	4 4 0(A)	4 10 0

(a) Monkey brand. | (b) Rising Sun. | (c) Elephant. | (A) Gold Mohor.

Marts.	MUSTARD OIL.			PINEWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	23 0 0	23 0 0	23 0 0	0 8 0	0 8 0	1 0 0	...	...	...
Chetta Hat	...	...	...	...	...	...	...	...	...
Burdwan	23 0 0	24 8 0	23 8 0	0 8 0	0 8 0	0 8 0	0 8 0	0 8 0	0 8 0
Kalna	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...
Midnapore	36 0 0 to 38 0 0	36 0 0 to 38 0 0	28 0 0 to 30 0 0	0 7 0	0 8 0	0 7 0	...	...	...
Chittagong	48 0 0	48 0 0	28 0 0	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	27 8 0	40 0 0	28 0 0	...	...	...	...	...	...
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Madaripur	...	...	...	...	...	...	...	...	...
Pabna	37 0 0	43 0 0	29 0 0	...	...	...	...	...	...
Sirajganj	...	...	...	...	...	...	...	...	...
Raipur	41 0 0	41 0 0	30 0 0	...	...	...	...	...	...

DACCA,

The 12th November 1919.

J. C. ROY,

for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of October 1919.**

QUANTITY PER RUPEE IN SHEERS OF EIGHTY TOLAS.

DIVISION.

PREMIER.

BURDWAN.

RAJSHAH.

DISTRICTS AND MARTS.	Number.	COMMON RICE.	KALAI DAL ( <i>Phaseolus radiatus</i> ).	ARHAR (DAL) OR THUR, CANDAN P'KA ( <i>Cajanus indicus</i> ).	SALT.											
Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.								
Average.	Obespost.															
24-PARGANAS.		S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.
1	Chetla Hât ...	4 0	4 0	7 2	4 0	4 0	7 3	4 0	4 0	4 0	4 0	4 0	5 6	10 10	10 10	8 2
2	Magra Hât ...	5 1	4 12	7 12	5 5	5 0	8 4	(a)	(a)	...	3 0	3 5	5 0	10 12	10 12	10 0
3	Calcutta-Bellaghat	4 13	4 13	8 13	6 0	5 0	8 0	4 7	4 7	4 0	4 0	4 0	5 14	10 0	10 0	10 0
NADIA.																
4	Gouri ...	4 15	5 0	6 10	5 5	5 0	8 0	3 4	3 2	3 3	3 4	3 3	5 5	10 10	11 10	10 10
5	Ranaghat ...	4 12	4 5	7 11	6 0	5 0	8 10	3 2	3 2	4 0	3 3	3 3	4 0	10 5	10 5	9 0
MURSHIDABAD.																
6	Begampur ...	4 3	4 3	7 0	4 12	4 12	7 4	4 0	4 0	3 0	4 0	4 0	6 0	13 0	13 0	9 0
7	Kandi ...	3 0	4 14	8 0	5 0	5 0	8 4	3 4	3 4	4 0	5 12	5 12	6 5	10 8	10 8	10 0
8	Jangipur ...	6 0	5 12	8 3	5 5	5 0	8 0	3 5	3 5	...	3 5	3 5	7 0	13 0	13 0	8 3
JESSORE.																
9	Sadar ...	5 6	4 14	8 0	5 12	5 0	10 0	2 3	2 4	4 0	3 0	3 0	4 3	11 4	11 4	10 0
10	Bagga ...	4 0	4 0	7 7	5 11	5 0	8 14	2 11	2 11	4 0	3 3	3 3	5 5	11 4	11 4	9 3
KRISHNA.																
11	Sadar ...	5 4	4 3	8 0	5 4	4 3	9 3	3 3	3 0	6 3	3 3	3 0	4 3	9 0	9 0	9 0
12	Bagerhat ...	4 3	4 3	7 0	5 5	5 5	9 0	5 0	5 0	5 4	3 10	3 10	5 4	9 0	9 0	9 0
BURDWAN.																
13	Sadar ...	4 10	4 10	8 0	4 14	5 0	9 0	4 3	4 3	4 12	3 12	4 0	5 3	10 3	10 3	9 0
14	Kalna ...	4 5	4 3	6 2	5 0	4 10	6 0	3 10	3 10	4 0	3 5	3 5	5 3	11 0	11 0	9 0
DINAHUM.																
15	Buri ...	5 0	5 0	6 12	5 3	5 4	7 3	4 3	4 3	3 5	3 4	3 0	5 5	11 0	11 0	10 0
16	Rampur Hât ...	5 0	5 4	7 3	6 0	6 0	8 0	5 0	4 0	3 3	3 3	3 0	6 0	11 0	11 0	11 0
BANKURA.																
17	Sadar ...	4 3	4 12	7 0	5 0	5 2	7 3	5 3	5 4	3 3	3 4	4 0	5 0	10 0	10 0	10 3
18	Vishnupur ...	4 3	5 3	6 4	5 0	5 12	6 14	4 0	4 3	5 0	3 12	3 5	5 0	10 0	10 0	9 0
MIDNAPORE.																
19	Sadar ...	4 11	5 0	8 1	4 13	5 3	9 5	3 4	3 4	4 0	3 4	3 4	4 0	10 0	10 0	9 0
20	Contai ...	5 0	5 0	7 3	5 4	5 4	8 0	3 0	3 0	7 0	3 0	3 0	7 0	9 0	9 0	9 0
HOOCHLY.																
21	Sadar ...	4 5	4 3	7 0	5 0	5 0	7 3	4 0	4 0	4 4	4 0	3 3	5 3	10 3	10 3	10 0
22	Arambagh ...	5 3	5 12	7 4	5 12	5 14	7 3	3 4	3 4	4 0	3 4	3 4	5 0	10 10	10 10	9 0
HOWRAH.																
23	Sadar ...	4 12	5 0	6 4	5 5	5 5	7 3	4 0	4 3	4 0	4 3	4 4	4 5	11 0	11 0	9 3
24	Ulubaria ...	4 4	4 4	7 0	4 3	4 3	5 0	4 0	4 0	4 0	3 10	3 10	4 3	11 3	11 3	10 0
RAJSHAH.																
25	Rampur-Boalia ...	4 10	4 14	7 2	4 12	5 0	8 4	4 0	4 0	4 0	4 0	3 6	5 4	9 12	9 12	8 0
26	Nator ...	4 14	4 14	8 0	5 4	5 4	9 0	4 0	4 0	5 0	4 0	4 0	7 14	9 3	9 3	8 0
27	Dinajpur—Railway Basar Hât.	4 3	4 3	8 5	4 13	4 13	8 11	3 12	3 12	4 12	3 3	3 3	4 12	10 0	10 0	8 0
28	Jalpaiguri—Sadar ...	3 4	3 3	8 0	4 5	4 3	9 0	4 0	4 0	5 0	3 3	3 3	4 9	9 0	9 0	8 0

\* Karkatch.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of October 1919—continued.**

DIVISION.	DISTRICTS AND MARKETS.	QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL. ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURU, CADJAN PEA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
Number.		S. OH.	S. OH.	S. CH.	S. CH.	S. OH.	S. OH.	S. OH.	S. OH.	S. OH.	S. OH.	S. CH.	S. CH.	S. OH.	S. CH.	S. CH.
SARAWATI.	DANJELING.															
	30 Sadar ...	3 0	3 0	3 0	4 0	4 0	6 0	2 12	2 12	4 0	2 12	2 12	4 0	2 0	2 0	3 0
	31 Chingri ...	4 0	3 0	3 0	5 0	4 0	9 0	3 0	3 0	5 0	3 0	3 0	5 0	3 0	3 0	3 0
	BANGOR.															
	31 Sadar ...	3 10	3 10	7 0	4 0	4 0	3 0	3 12	3 12	6 0	3 0	3 0	6 0	3 0	3 0	3 0
	32 Nilphamari ...	4 0	4 0	3 0	4 7	3 0	9 0	3 5	3 5	6 0	3 5	3 5	6 0	10 0	10 0	3 0
	33 Bogra—Sadar ...	4 0	3 2	3 0	4 15	3 12	5 4	3 0	3 0	6 0	3 0	3 0	4 0	3 12	3 12	3 0
	PADMA.															
	34 Sadar ...	4 14	4 12	3 10	5 0	4 12	9 0	3 4	3 4	4 0	3 0	3 0	5 0	11 0	11 0	3 0
	35 Sirajganj ...	3 15	3 12	7 0	4 4	4 0	6 0	4 0	4 0	6 0	3 0	3 12	6 0	3 0	3 0	3 0
DACC.	MALDA.															
	36 Sadar ...	4 0	4 0	3 0	5 4	5 0	9 0	4 0	4 0	4 0	4 0	3 12	6 0	12 0	11 0	3 0
	37 Balia—Nawabganj ...	4 12	4 0	3 0	6 0	4 12	9 10	4 0	4 0	6 0	3 0	3 0	7 0	11 0	11 0	3 0
	DACCA.															
	38 Sadar ...	4 4	3 12	3 0	5 0	5 0	9 0	4 0	4 0	3 4	4 0	4 0	5 0	5 0	9 0	3 0
	39 Mubshir Hat ...	5 0	3 0	3 0	5 0	4 4	9 0	(n)	(n)	(n)	(n)	(n)	...	3 0	3 0	3 0
	MYMENSINGH.															
	40 Nasirabad ...	3 4	4 0	6 10	4 0	5 0	6 14	4 0	4 0	3 0	4 0	4 0	5 4	5 0	3 0	3 0
	41 Netrokona ...	3 10	3 10	3 0	5 0	4 15	5 0	5 0	5 0	6 0	3 0	3 10	6 0	10 0	10 0	3 0
	FAKIRPOUR.															
CHITTAGONG.	42 Sadar ...	4 0	4 0	3 0	4 12	4 0	9 0	4 0	4 0	4 0	4 0	4 0	4 0	3 10	3 10	3 0
	43 Rajbari ...	4 0	4 0	3 0	4 12	4 0	9 12	4 0	3 7	4 12	3 0	3 0	4 0	10 0	3 4	3 0
	BAKARGANJ.															
	44 Barisal ...	4 0	3 0	7 10	4 0	4 0	5 0	5 4	5 4	5 0	3 4	3 4	5 0	3 4	3 4	3 0
	45 Barojpur ...	3 14	3 0	7 10	3 15	3 12	7 14	4 0	4 0	...	(n)	(n)	4 12	3 0	3 0	3 0
	TIPPERA.															
	46 Comilla ...	3 12	3 0	7 11	5 4	5 0	7 14	4 0	4 0	5 0	3 0	3 0	4 10	5 0	5 0	3 12
	47 Chanderpur ...	3 14	3 10	6 0	5 4	5 4	9 14	3 12	3 12	5 0	3 0	3 0	7 4	3 0	3 0	3 1
	NOAKHALI.															
	48 Kalliat Hat ...	4 12	4 12	3 0	5 0	5 0	9 0	4 4	4 4	3 0	3 0	3 0	5 0	3 0	3 0	3 0
CHITTAGONG.	49 Feni Hat ...	4 5	3 0	6 12	5 0	5 0	11 10	5 0	5 0	3 0	(n)	(n)	...	5 0	5 0	3 2
	50 Sadar ...	5 0	5 0	3 0	6 0	6 0	9 0	3 12	3 12	4 0	3 4	3 0	5 0	3 0	3 0	10 0
	51 Cox's Bazar ...	5 12	5 0	3 0	(n)	(n)	9 0	4 0	4 0	4 0	3 4	3 4	4 0	3 0	3 0	3 0
	52 Chittagong Hill Tracts—Rangamati.	5 0	5 0	3 0	7 0	5 0	10 0	4 0	4 0	3 0	3 0	3 0	4 0	3 0	3 0	3 0

\* Karkatoh.

(n) Not available.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA;  
The 12th November 1919.



GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 15th November 1919, as compared with the corresponding week of the previous year.

Nature of Cargo.	WEEK ENDING SATURDAY, THE 15TH NOVEMBER 1919.			WEEK ENDING SATURDAY, THE 16TH NOVEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	205	16,765	284	959	107,095	1,914
Jute ...	192	77,426 <sup>*</sup>	839	225	83,917 <sup>†</sup>	936
Firewood ...	58	40,575	622	108	37,150	574
Other articles ...	835	182,148	2,119	855	164,766	2,143
Total ...	1,290	316,914	3,864	2,147	392,928	5,567
Empty boats and rafts ...	625	...	1,286	564	...	1,673
GRAND TOTAL	1,915	316,914	5,150	2,711	392,928	7,239

\* Weight by canal measurement ... Mds. 82,187½  
† Ditto ditto ... Mds. 82,937½

CALCUTTA,  
The 18th November 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 8th November 1919.

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 5 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
2nd Nov.	58.85	...	...	...	...	58.78	
3rd "	58.6	...	...	...	...	58.6	
4th "	58.6	...	...	...	...	58.55	
5th "	58.5	...	...	...	...	58.45	
6th "	58.5	...	...	...	...	58.45	
7th "	58.4	10	58.65	...	...	58.4	E. T. at 10-20. E. T. at 11-10 and E. T. at 12-15.
8th "	58.4	11	58.6	17	58.15	58.15	

Notable high and low water-levels of previous years.

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.80	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
13th "	1912	...	...	...	67.10	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	Taken at low tide.
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.30	
16th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 12th November 1919.

BENODE BEHARY RAY,  
for Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur.  
Boalia for the week ending the 8th November 1919.**

Date.	Hour.	Height of surface above or below zero, according to P. W. D. datum.	Height of surface above mean sea-level, according to P. W. D. datum.	Height of surface above mean sea-level on the same date last year, according to P. W. D. datum.	Remarks.
1919.					
2nd November	8 A.M.	Zero of gauge is at mean sea level.	45.70	43.11	B. M. on College step corrected, 64.93.
3rd "	8 "		45.60	42.91	
4th "	8 "		45.50	42.81	
5th "	8 "		45.30	42.61	
6th "	8 "		45.10	42.51	
7th "	8 "		44.90	42.36	
8th "	8 "		44.80	42.28	

(a) P. W. D. datum 6.26 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	Highest water-level	...	66.53 on 30th August 1918	...
Ditto	Lowest	...	41.70 on 21st April 1918	61.71
Record	Highest	...	69.25 on 26th August 1879	86.89
Do.	Ditto	...	69.08 on 9th September 1885	64.44
Do.	Ditto	...	68.30 on 26th August 1906	64.27
Do.	Ditto	...	68.21 on 26th August 1890	68.47
Do.	Lowest	...	37.63 on 25th April 1884	63.40
Do.	Ditto	...	38.13 on 14th-15th April 1883	52.42
Do.	Ditto	...	39.02 on 21st-22nd April 1897	58.82
Do.	Ditto	...	39.28 on 6th-7th May 1908	54.21
				34.47

N.B.—The gauge-readings commenced from 1st August 1918.

BOALIA,

S. C. BHATTACHARJI,

The 8th November 1919.

for Executive Engineer, Rajshahi Division.

**Statement of weekly gauge-readings on the rivers Ganges and  
Brahmaputra for the week ending 8th November 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
2nd November	7 A.M.	12.1	13.1	14.2	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.61.
3rd "	7 "	12.7	12.7	14.0	
4th "	7 "	12.6	12.6	13.8	
5th "	7 "	12.5	12.5	13.6	
6th "	7 "	12.3	12.2	13.5	
7th "	7 "	15.9	15.9	13.1	
8th "	7 "	15.7	15.7	13.2	

The previous year	Highest water-level	...	25.2 on 1st September 1918.
Ditto	Lowest	...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	Highest	...	25.76 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	Ditto	...	25.74 on 20th and 21st August 1905.
Record (H.F. in Brahmaputra and Ganges)	Ditto	...	25.66 on 11th to 17th and 21st August and on 1st to 2nd September 1889.
Record (H.F. in Brahmaputra only)	Ditto	...	25.66 on 31st July 1900.
Do.	Lowest	...	1.0 on 8th February 1914.
Do.	Ditto	...	2.42 on 13th March 1908.
Do.	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	Ditto	...	3.16 on 9th to 11th March 1893.
Do.	Ditto	...	3.16 on 16th, 17th and 20th to 31st March 1901.

FARIDPUR,

R. K. GHOSE,

The 8th November 1919.

for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 26, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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## RESOLUTION ON THE ADMINISTRATION REPORT ON THE HOWRAH BRIDGE FOR THE YEAR 1918-19.

### GOVERNMENT OF BENGAL.

#### MARINE DEPARTMENT.

CALCUTTA, THE 22ND NOVEMBER 1919.

#### RESOLUTION—No. 3632Marine.

READ—

The Administration Report on the Howrah Bridge for the year 1918-19.

THE year under review opened with a deficit balance of Rs. 4,02,944 on revenue account.

2. The income of the Bridge during the year amounted to Rs. 3,74,648 against Rs. 3,43,284 in the previous year. The total expenditure was Rs. 2,93,863, including Rs. 4,258 expended on renewals to the Bridge



structure and repairs to the ferry landing stage at Howrah. In the preceding year the total expenditure was Rs. 4,27,195, which included an abnormal expenditure of Rs. 1,41,492 expended on renewals to the Bridge structure and repairs to the ferry landing stage at Howrah.

As in the previous year, the increase in the income was principally due to—

- (1) the receipts from the East Indian Railway traffic which amounted to Rs. 2,86,276 against their guaranteed minimum of Rs. 2,00,000 ;
- (2) the contribution of Rs. 26,000 made by the Bengal-Nagpur Railway in consideration of their passenger traffic over the Bridge ; and
- (3) the increased earnings of the two ferry steamers.

3. The renewals to the Bridge structure and repairs to the ferry landing stage at Howrah were completed during the year, the total sums spent on these works up to 31st March 1919 being Rs. 3,59,305.

The working result of the year was a surplus of Rs. 80,785 as compared with a deficit of Rs. 83,911 in the previous year, so that the closing deficit on revenue account on the 31st March 1919 stood at Rs. 3,22,159. It is anticipated that the present large debit balance will be gradually extinguished from future surpluses.

4. The number of vessels that passed through the Bridge during the year and the preceding four years is given below :—

	1918-19.	1917-18.	1916-17.	1915-16.	1914-15.
Sea-going vessels ...	21	60	61	80	75
Inland steamers and flats ...	2,590	2,345	2,806	2,704	2,422
Steam-tugs and steam-launches ...	914	773	886	897	805
Port Commissioners' vessels ...	59	39	27	39	71
Government steamers and flats ...	8	7	9	9	...
Total ...	3,592	3,224	3,780	3,729	3,372

5. The total number of accidents during the year was 35 against 39 in the previous year. As the result of these one life and four boats were lost.

6. The Bridge was opened during the year on 303 occasions, viz., 51 times during the day and 252 times at night.

7. The report of Mr. Basil Mott on the type of the proposed new bridge to which reference was made in the resolution on the report for 1917-18, has been received ; but as yet no final decision has been made as this Government is consulting further expert opinion on the subject.

By order of the Governor in Council,

F. A. A. COWLEY,

Secy. to the Govt. of Bengal.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 20th November 1919.

**Summary.**—During the first part of the week light to moderate rain fell almost throughout the province. It has somewhat benefited the late transplanted paddy and has greatly facilitated the growth of vegetables and other spring crops. Harvesting of winter paddy and sowing of spring crops are proceeding. The average price of common rice for the province has risen by about 1·36 per cent. as compared with that of the previous week.

District No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	1·88	{ 5½ <sup>3</sup> 6½ <sup>0</sup> }	{ 5 6½ <sup>0</sup> }	<i>Rabi</i> crops are being sown. Harvesting of sugarcane and <i>aman</i> paddy continues. Water is sufficient. Prospects of standing crops are good.
	Diamond Harbour.	(n)	(n)	(n)	
	Barrackpore	1·34	{ 4½ <sup>1</sup> 6 <sup>0</sup> }	{ (n)	
	Barasat ...	2·25	{ 4½ <sup>1</sup>	{ 4½ <sup>1</sup>	
	Basirhat ...	Nil	{ 5½ <sup>0</sup>	{ 5½ <sup>1</sup>	
2	NADIA ...	1·31	{ 5½ <sup>3</sup> 6½ <sup>0</sup> }	{ 5 6½ <sup>0</sup> }	Recent rains have facilitated the sowing of <i>rabi</i> crops. Condition of standing crops has improved. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	0·53	{ 5	{ 5 7 <sup>0</sup>	
	Meherpur ...	0·91	{ 5½ <sup>1</sup> 5½ <sup>3</sup>	{ 5½ <sup>1</sup> 5½ <sup>3</sup>	
	Chuadanga ...	1·22	{ 5½ <sup>3</sup> 6 <sup>0</sup>	{ 5½ <sup>3</sup> 6 <sup>0</sup>	
	Ranaghat ...	1·50	{ 4½ <sup>1</sup>	{ 4½ <sup>1</sup> 6 <sup>0</sup>	
3	MURSHIDABAD	0·68	{ 4½ <sup>1</sup> to 4½ <sup>1</sup>	{ 5½ <sup>1</sup>	Prospects of standing crops are good. Recent rain has benefited the <i>rabi</i> crops and <i>aman</i> paddy. Burma rice is not available. Sowing of <i>rabi</i> crops continues. Fodder is sufficient. No large import or export of rice.
	Lalbagh ...	0·68	{ 5½ <sup>1</sup>	{ 5½ <sup>1</sup>	
	Jangipur ...	0·66	{ 5½ <sup>1</sup>	{ 5½ <sup>1</sup>	
	Kandi ...	0·58	{ 4½ <sup>1</sup>	{ 5½ <sup>1</sup>	
4	JESSORE ...	2·12	{ 6 6 <sup>0</sup>	{ 6 6 <sup>0</sup>	Recent rain has benefited the standing crops, especially <i>rabi</i> . Sowing of <i>rabi</i> crops continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	1·09	{ 5	{ 5	
	Magura ...	1·12	{ 5	{ 5½ <sup>1</sup>	
	Narail ...	2·04	{ 6½ <sup>1</sup> 6½ <sup>0</sup>	{ 6½ <sup>1</sup> 6½ <sup>0</sup>	
	Bangaon ...	1·65	{ 6	{ 6	
5	KHULNA ...	2·62	{ 5 5½ <sup>0</sup>	{ 4½ <sup>1</sup> 6½ <sup>0</sup>	Weather was foggy and rainy during the first part of the week, but is clear now. Effects are favourable to <i>rabi</i> crops, but slight damage has been done to winter rice. Cattle-disease is reported from Paikgacha thana and from Satkhira subdivision. Harvesting of early <i>aman</i> is in progress. Fodder and water are insufficient in Satkhira subdivision.
	Satkhira ...	(n)	(n)	{ 5 5½ <sup>3</sup>	
	Bagerhat ...	4·99	{ 5½ <sup>1</sup> 5½ <sup>3</sup>	{ 5½ <sup>1</sup> 5½ <sup>3</sup>	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	0.85	5	5	Weather cold. Rainfall has slightly benefited <i>aman</i> paddy and helped the sowing of potatoes and other <i>rabi</i> crops. Sugarcane and vegetable are doing well. Cattle-disease is reported from Ketugram thana.
	Asansol ...	0.27	6	5½	
	Katwa ...	1.14	5½	5	
	Kalna ...	0.90	4½	4½	
7	BIRBHUM ...	0.30	6	6	Weather cloudy. <i>Aman</i> paddy is being harvested and grain is being sown. Prospects of standing crops are fair. Burma rice is not available. Cattle-disease is reported from Moureswar thana.
	Rampurhat...	0.45	6	6	
8	BANKURA ...	0.45	6	5½	Export of rice and paddy is going on. Reaping of early <i>aman</i> paddy continues. Preparation of land for <i>rabi</i> crops has begun. Prospects of sugarcane are good.
	Vishnupur ...	0.85	6½	5½	
9	MIDNAPORE	0.91	{ 4½ 5½ 5½ 6½ }	{ 4½ 5½ 5½ 6½ }	Weather seasonable. Prospects of winter rice are fair. Harvesting of winter rice and sowing of <i>rabi</i> crops continue. Fodder is sufficient.
	Ghatal ...	0.55	{ 4½ 5½ 6½ }	{ 5 5½ }	
	Tamluk ...	2.34	{ 4½ 5½ 5½ }	{ 4½ 5½ 5½ }	
	Copai ...	2.98	{ 4½ 4½ 5½ }	{ 4½ 5½ }	
			{ 4½ 5½ }	{ 4½ 5½ }	
10	HOOGHLY ...	1.84	{ 4½ 5½ to 6½ }	{ 4½ 5½ to 6½ }	Price of rice has fallen slightly. Recent rain has slightly benefited the paddy. Fodder is sufficient.
	Serampore ...	0.93	5½	{ 5 6 }	
	Arambagh ...	0.63	6½	5	
11	HOWRAH ...	1.66	{ 4½ 6½ }	{ 4½ 6½ }	Condition of sugarcane is fair. Slight damage to standing paddy is reported from Ulubaria subdivision. Fodder is sufficient.
	Ulubaria ..	1.80	{ 4½ 6½ }	{ 4½ 6½ }	
12	RAJSHAHI (RAMPUR-BOALIA).	0.46	{ 4½ 5½ }	{ 4½ 5½ }	Prospects of standing crops are favourable. Sowing of <i>rabi</i> crops continues. Fodder is sufficient.
	Naogaon ...	0.16	{ 4½ 5½ }	{ 4½ 5½ }	
	Nator ...	0.71	{ 4½ 5½ }	{ 4½ 4½ }	
13	DINAJPUR ...	Nil	{ 4½ 6 }	{ 5½ }	Weather seasonable. Prospects of standing crops are fair.
	Thakurgaon	Nil	4½	5	
	Balurghat ...	0.15	{ 3½ 5½ }	{ 5 }	
14	JALPAIGURI...	Nil	{ 4½ 6 }	{ 4 6 }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	Nil	{ 4 6 }	{ 4 6 }	

\* Burma rice.

† Coarse rice.

‡ Aus rice.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SERIES, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
15	DARJEELING	Nil	{ 4½ 5½ }	{ 4½ 5½ }	Winter paddy, millet, cardamom and <i>marua</i> are being harvested. Stock of common and Burma rice in Sadar is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	{ 5½ 5½ }	{ 5½ 5½ }	
	Siliguri ...	Nil	{ 5 6 }	{ 5 6 }	
	Kalimpong...	Nil	{ 5½ 5½ }	{ 5½ 5½ }	
16	RANGPUR ...	0·04	{ 4½ 4½ }	{ 4½ 5½ }	Weather cloudy. Sowing of <i>rabi</i> crops is in progress. Harvesting of winter paddy has commenced in some places. Price of rice is stationary except in Nilphamari subdivision where rice is due to insufficient supply. Burma rice sells at Saidpur 8 seers per rupee. Fodder and water are sufficient.
	Nilphamari	Nil	{ 3½ 4½ }	{ 4½ 5½ }	
	Kurigram ...	Nil	{ 4 4 }	{ 4 6 }	
	Gaibandha ...	0·40	{ 4½ 5½ }	{ 4½ 5½ }	
17	BOGRA ...	0·48	{ 4½ 5½† }	{ 4½ 5½ to 5½ }	Recent rain has done good to standing crops. Prospects are fair. Sowing of <i>rabi</i> crops continues.
18	PABNA ...	0·75	{ 4½ 6 }	{ 4½ 6 }	Condition of standing crops is good. Fodder is sufficient.
	Sirajganj ...	(n)	(n)	{ 4½ 6 }	
19	MALDA ...	0·37	{ 5 6½ }	{ 5 6½ }	Weather seasonable. Sowing of <i>rabi</i> crops approaching completion. Cattle-disease is reported from Bamongola thana. Fodder and water are sufficient.
20	COOCH BEHAR	0·01	5	5½	Weather seasonable. Washing of jute is finished. Harvesting of <i>haimantic</i> paddy has commenced in places. Fodder and water are sufficient. Burma rice is not available.
21	DACCA ...	1·47	{ 4½ 6 }	{ 5 6 }	Weather rainy and favourable for harvesting of early <i>aman</i> paddy and for sowing of <i>rabi</i> crops. Prospects of standing crops are satisfactory. Fodder and water are sufficient.
	Manikganj ...	1·24	{ 4½ 5½ }	{ 4½ 5½ }	
	Narayanganj	1·82	{ 4½ 5½ }	{ 4½ 5½ }	
	Munshiganj (a)	1·66	{ 4½ 6 }	{ 5 6 }	
22	MYMENSINGH	0·86	{ 4 5½ }	{ 3½ 5½ }	Sowing of <i>rabi</i> crops and harvesting of broadcast <i>aman</i> are going on. Prospects of crops are fair. Fodder and water are sufficient. Cattle-disease is reported from Bhaluka and Trisal thanas and three cases from Netrakona subdivision.
	Jamalpur ...	0·38	{ 3½ 6½ }	{ 3½ 6½ }	
	Tangail ...	Nil	{ 3½ 5½ }	{ 4½ 5½ }	
	Netrakona ...	0·95	{ 4½ 6½ }	{ 4½ 6½ }	
	Kishorganj...	2·19	{ 4½ 5½ }	{ 4½ 6 }	

(n) Not reported.

\* Burma rice.

† New.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	1.40	{ 4½ 6½ }	{ 4½ 6½ }	Effects of rain are favourable to <i>rabi</i> crops and deep water paddy (late variety). Harvesting of <i>aman</i> paddy continues. Prospects are fair. Fodder is sufficient.
	Goalundo ...	1.01	{ 5½ 6 }	{ 5½ 6 }	
	Madaripur ...	2.00	{ 4 5½ }	{ 4½ 5½ }	
	Gopalganj(a)	2.89	{ 5 6 }	{ 5½ 5½ }	
24	BAKARGANJ (BARISAL).	2.93	{ 3½ 6 }	{ 3½ 6 }	Rain and high wind of 15th and 16th instant did somewhat damage to standing crops. Fodder is sufficient.
	Pirojpur ...	3.67	{ 3½ 6 }	{ 3½ 6 }	
	Patuakhali ...	3.80	{ 4 5½ 6 }	{ 4 5½ 6 }	
	Dakshin Shabazpur (Bhola).	2.71	{ 3½ 4½ }	{ 4½ 4½ }	
25	CHITTAGONG	5.37	{ 6½ 6½ }	{ 6½ 6½ }	Cultivation of <i>rabi</i> crops and harvesting of <i>aman</i> paddy are in progress. Prospects of standing crops are fair. <i>Panga</i> salt is selling at 8 and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	6.17	{ 6½ 6 }	{ 5½ 6 }	
26	TIPPERA (COMILLA).	0.48	{ 5½ 6½ }	{ 6½ 6½ }	Prospects of standing crops are hopeful. Harvesting of <i>aman</i> paddy continues. Sowing of <i>rabi</i> crops is going on.
	Brahmanbaria.	1.69	{ 6½ 6½ }	{ 5½ 6½ }	
	Chandpur ...	2.51	{ 6½ 6½ }	{ 6½ 6½ }	
27	NOAKHALI ...	2.63	5	6	Weather fair. Rain has improved the condition of winter paddy. Fodder is sufficient.
	Feni ...	2.42	6½	6½	
28	CHITTAGONG HILL TRACTS.	4.41	{ 4½ 5½ 4½ }	{ 5 6½ 5 }	Prospects of <i>aman</i> paddy are fair. Harvesting of cotton crop and cultivation for <i>rabi</i> crops continue. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.  
 \* Burma rice. † Local rice. ‡ Aus rice.

R. S. FINLOW,  
 Director of Agriculture, Bengal

DACCA, the 24th November 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 22nd November 1919.**

Name of article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse	8 8 0	9 8 0	0 3 6	0 4 6
" medium	10 0 0	...	0 3 9	0 5 0
Patnai, coarse	7 12 0	8 14 0	0 3 3	0 3 6
" medium	9 0 0	10 4 0	0 3 9	0 4 0
Nagra, coarse	8 0 0	8 15 0	0 3 3	0 3 6
" medium	9 0 0	10 8 0	0 3 9	0 4 0
Dudhkalma	9 0 0	9 4 0	0 3 9	0 4 0
Rangoon Boiled	.....	.....	0 2 6	.....
Kajla	7 8 0	7 14 0	.....	.....
Wheat, Dudhia	7 12 0	8 0 0	.....	.....
" Gangajali	.....	.....	.....	.....
" Jamali	7 0 0	7 4 0	.....	.....
Gram, Patnai (whole)	8 0 0	8 4 0	0 3 8	0 4 0
" dal	9 0 0	9 8 0	0 4 0	0 4 6
Mung " (Hari)	11 0 0	12 0 0	0 6 0	0 8 0
" " (Krishna)	10 4 0	11 0 0	0 5 0	0 6 0
Arhar "	10 8 0	12 0 0	0 4 0	0 5 0
Masur " (split)	7 14 0	8 12 0	0 3 6	0 4 0
" " (Khanri)	11 8 0	12 4 0	0 5 0	0 6 0
Kalai "	8 8 0	9 8 0	0 4 0	0 6 0
Salt	3 3 0	3 6 0	0 1 6	0 1 9
Sugar (Brown Java)	21 12 0	.....	0 9 0	0 10 0
Gur, Bheel	9 10 0	.....	0 4 6	.....
" Bhursut	11 4 0	11 8 0	0 7 0	.....
Milk	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil	38 8 0	39 0 0	1 2 0	.....
Flour (country)	9 12 0	10 8 0	0 4 0	0 5 0
Atta, No. 3	7 6 0	} .....	0 3 8	0 4 6
" " 2½	7 14 0			
" " B	10 8 0			
Suji	9 15 0	10 12 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.)	95 0 0	96 0 0	2 8 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	90 0 0	91 0 0	2 6 0	.....
" (Lalli, Etwa, Sagur, etc.)	81 0 0	82 0 0	2 4 0	.....
Maize	5 0 0	5 12 0	.....	.....
Potato	6 0 0	7 0 0	0 3 6	0 6 0
Patal	8 0 0	9 0 0	0 6 0	.....
Brinjal	2 8 0	2 12 0	0 2 0	0 3 0
Onion	3 12 0	4 4 0	0 1 6	0 2 0
Fish, Rahu	20 0 0	25 0 0	0 10 0	0 12 0
Mutton (2nd class)	.....	.....	0 8 0	.....
Beef (2nd and 3rd classes)	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices of the following markets :—

*Wholesale.*—Chetla Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets, Posta Bazar.  
*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 24th November 1919.



## DAILY RAINFALL RECORDED IN

DIVISION.

PADMINIST.

BURDWAN.

DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
24-Parganas	Bangor Island...	...	...	...	0.08	0.43	...	...	...	...	0.05	0.91	...	...	...	...	...	...	...	...	...	
	Diamond Harbour...	0.13	...	...	...	0.81	...	...	0.24	0.29	0.08	...	...	...	0.69	...	...	...	...	...	...	
	Badke-Budge...	...	...	...	0.06	0.07	...	...	...	0.25	0.30	...	...	0.26	...	0.01	...	...	...	...	...	
	Canning Town...	...	...	...	...	0.06	0.08	0.14	...	0.09	...	...	0.04	0.03	0.02	...	...	...	...	...	...	
	Alipore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Barrackpore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dum-Dum...	0.15	...	...	1.45	0.16	0.12	...	0.49	0.05	0.41	0.06	0.31	...	0.09	...	...	...	...	...	...	
	Barasat...	...	...	...	...	1.10	...	...	...	0.18	...	...	...	...	...	...	...	...	...	...	...	
	Basirhat...	...	...	...	0.51	0.26	...	...	...	...	...	...	...	...	0.28	...	...	...	...	...	...	
	Nadia	Ranaghat...	...	...	...	...	0.29	...	...	...	0.20	...	...	...	...	...	...	...	...	...	...	...
Krishnagar...		...	...	...	...	0.34	0.10	0.72	0.11	...	...	...	...	0.27	1.16	...	...	...	...	...	...	
Chandanga...		...	...	...	...	...	...	...	...	...	...	...	...	...	0.31	0.14	...	...	...	...	...	
Mohorpur...		...	...	...	0.51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Kuchitla...		...	...	...	...	0.28	...	...	0.06	0.01	...	...	...	...	...	...	...	...	...	...	...	
Harlinghata...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Murshidabad	Kandi...	...	...	...	0.09	0.86	...	...	...	...	...	...	...	0.06	...	...	...	...	...	...	...	
	Berhampore...	...	...	...	...	0.18	0.31	...	...	...	...	...	...	1.16	1.20	...	...	...	...	...	...	
	Lalbagh...	...	...	...	...	0.10	...	...	...	...	...	...	...	0.08	0.60	...	...	...	...	...	...	
	Asimganj...	...	...	...	0.29	0.01	0.12	...	...	...	0.12	...	...	0.23	...	...	...	...	...	...	...	
	Jangipur...	0.29	...	...	0.04	0.16	0.19	...	...	...	0.30	...	...	0.24	...	...	...	...	...	...	...	
	Lalgaon...	...	...	...	0.26	0.12	0.23	...	...	...	...	...	0.23	...	...	...	...	...	...	...	...	
	Akrikanj...	0.05	...	...	1.20	2.27	2.24	0.20	...	...	...	...	...	...	0.73	...	...	...	...	...	...	
	Pathbari...	...	...	...	...	0.30	...	...	...	...	...	...	...	1.18	...	...	...	...	...	...	...	
	Dumkal...	0.20	...	...	...	0.86	0.35	1.13	...	...	...	...	...	0.40	...	...	...	...	...	...	...	
	Kalyanganj...	...	...	...	0.07	...	...	...	...	...	...	...	1.25	0.54	...	...	...	...	...	...	...	
Jamore	Narail...	0.10	0.10	...	...	...	0.70	...	...	...	...	...	...	0.05	0.15	...	...	...	...	...	...	
	Jessore...	...	...	...	...	...	1.10	0.10	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Jhoulia...	...	...	...	1.42	0.07	...	0.30	...	0.08	...	...	...	0.20	0.31	...	...	...	...	...	...	
	Magura...	...	...	...	...	0.30	0.25	...	...	...	...	...	...	...	0.20	...	...	...	...	...	...	
	Bongaon...	0.63	...	...	...	0.23	0.10	...	...	...	0.23	0.25	0.12	...	0.24	...	...	...	...	...	...	
	Khulna	Satkhira...	...	...	...	1.25	0.30	0.30	0.25	0.12	...	...	...	...	...	...	...	...	...	...	...	...
		Buxarhat...	0.07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khulna...	...	...	...	...	0.05	...	...	0.07	0.03	0.11	0.15	...	...	...	...	...	...	...	...	...
		Khaliganj...	...	...	...	0.02	0.03	0.45	...	0.06	0.10	...	...	...	0.40	0.06	0.20	0.45	...	...	...	...
		Naktipur...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dumuria...		...	...	0.08	1.74	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rampal...		0.18	0.25	0.21	0.15	0.17	0.23	0.12	0.16	0.25	0.23	0.28	0.18	...	...	...	...	...	...	...	...	
Kulaura...		...	...	...	...	0.05	0.21	1.22	0.42	0.21	0.25	0.45	...	...	...	...	...	...	...	...	...	
Palakachha...		0.05	0.07	...	...	0.24	0.04	0.20	...	...	...	...	...	0.05	0.18	0.44	...	...	...	...	...	
Molihat...		0.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.16	0.27	...	...	...	
Burdwan	Moreiganj...	...	...	...	0.49	...	...	...	0.25	0.20	0.15	0.25	0.02	...	...	0.10	...	...	...	...	...	
	Tala...	...	...	...	0.34	4.01	0.54	0.20	0.40	0.20	...	...	...	1.06	0.20	...	...	...	...	...	...	
	Burdwan	Kalna...	...	...	...	...	...	...	...	...	...	0.40	0.60	0.25	...	...	...	...	...	...	...	...
		Burdwan...	0.04	...	...	...	...	0.23	...	...	...	...	...	...	...	1.07	...	...	...	...	...	...
		Katwa...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.71	...	...	...	...	...	...
		Asansol...	...	...	0.20	...	0.16	...	...	...	...	...	...	...	...	0.28	0.55	...	...	...	...	...
		Mankar...	...	...	...	...	...	0.75	...	...	...	...	...	...	...	1.14	...	...	...	...	...	...
		Mangalkot...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Royna...	...	...	...	0.09	...	...	...	...	...	...	...	0.02	...	...	...	...	...	...	...	...
		Monteswar...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Birbhum		Bari...	...	...	...	...	...	...	...	...	...	...	...	...	0.20	0.50	...	...	...	...	...	...
		Hetampur...	...	...	...	...	...	0.37	...	...	...	...	...	...	...	1.49	...	...	...	...	...	...
	Rampurhat...	1.03	...	...	1.15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Bolpur...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Murail...	0.03	...	...	0.75	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Lalpur...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Burdwan	Bakura...	...	...	0.22	...	0.86	...	...	...	...	...	...	...	0.04	0.20	...	...	...	...	...	...
		Vishuapur...	...	...	...	...	3.75	0.40	...	...	0.03	...	...	...	...	0.04	...	...	...	...	...	...
		Mahara...	...	...	...	...	0.20	0.35	0.01	...	...	...	...	...	0.06	0.03	0.02	...	...	...	...	...
		Khatra...	...	...	...	0.18	0.11	0.35	...	...	...	...	...	...	0.02	0.03	0.33	...	...	...	...	...
Indas...		...	...	...	...	0.14	0.60	...	...	...	...	...	...	...	0.03	0.03	...	...	...	...	...	
Kotalpur...		...	...	...	0.55	0.04	...	1.27	...	...	...	...	...	...	0.73	...	...	...	...	...	...	
Gunda...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gangajalhati...		0.13	...	...	0.02	0.04	...	...	...	...	...	...	...	...	0.18	0.31	...	...	...	...	...	
Raipur...		...	...	...	0.82	1.50	...	...	...	...	...	...	...	...	...	0.04	...	...	...	...	...	
Sonamukha...		...	...	...	...	...	0.31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Talanganra...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Burdwan	Saranga...	...	...	...	0.33	...	0.30	...	...	...	...	...	...	...	0.26	...	0.02	...	...	...	...	
	Indpur...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Arhura...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Barjora...	0.11	0.49	1.77	...	...	...	...	...	...	...	...	...	...	0.03	0.08	...	...	...	...	...	
	Simalpal...	...	...	...	0.50	0.23	...	0.27	...	...	...	...	...	...	0.06	0.14	...	...	...	...	...	
	Meja...	...	...	...	...	0.14	...	...	...	...	...	...	...	...	...	...	0.02	...	...	...	...	
	Siromoupur...	...	...	...	1.25	0.12	...	...	...	...	...	...	...	...	0.25	...	...	...	...	...	...	
	Palasanga...	...	...	...	...	1.00	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Obatua...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Raulbandh...	...	...	...	0.19	0.85	...	...	...	...	...	...	...	...	0.27	0.34	...	...	...	...	...	
Saltora...	...	...	...	1.00	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Joyrampur...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Ambikannagar...	...	...	...	0.20	0.60	0.20	0.60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	



91	92	93	94	95	96	97	98	99	100	101	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st to 31st October 1919.	Normal rainfall from 1st to 31st October.	Station.	District.	Division.
...	...	...	0.02	0.04	...	...	...	...	...	...	2	7.6	1.47	5.31	0.91	1.47	5.31	Saugor Island ...	24-Parganas	...
...	...	...	1.45	...	...	...	...	...	...	...	6	8.5	3.30	4.71	1.43	3.30	4.71	Diamond Harbour.	...	...
...	...	...	...	...	...	...	...	...	...	...	3	5.7	0.59	3.77	0.26	0.59	3.77	Budge-Budge.	...	...
...	...	...	...	...	...	...	...	...	...	...	4	5.7	0.93	4.31	0.40	0.93	4.31	Canning Town.	...	...
...	...	...	0.01	...	...	...	...	...	...	...	1	5.7	0.46	3.73	0.14	0.46	3.73	Alipore.	...	...
...	...	...	0.10	...	...	...	...	...	...	...	5	5.3	1.53	3.77	0.74	1.53	3.77	Barackpore.	...	...
...	...	...	...	...	...	...	...	...	...	...	7	5.1	3.18	4.23	1.45	3.18	4.23	Dum-Dum.	...	...
...	...	...	...	...	...	...	...	...	...	...	3	5.3	1.63	4.23	1.10	1.63	4.23	Barisal.	...	...
...	...	...	0.39	...	...	...	...	...	...	...	4	5.4	1.46	4.61	0.52	1.46	4.61	Basirhat.	...	...
...	...	...	...	...	...	...	...	...	...	...	2	4.6	0.30	3.33	0.30	0.30	3.33	Ranaghat	Nadia	...
...	...	...	...	...	...	...	...	...	...	...	3	4.9	3.42	4.10	1.16	3.42	4.10	Krishnagar.	...	...
...	...	...	0.03	...	...	...	...	...	...	...	6	4.8	1.74	4.19	0.70	1.74	4.19	Chandanga.	...	...
...	...	...	0.15	...	...	...	...	...	...	...	3	4.5	3.17	3.74	3.50	3.17	3.74	Meherpore.	...	...
...	...	...	0.17	...	...	...	...	...	...	...	2	5.1	0.47	4.12	0.23	0.47	4.12	Kushtia.	...	...
...	...	...	...	...	...	...	...	...	...	...	Nil	4.8	Nil	3.31	Nil	Nil	3.31	Haringhata.	...	...
...	...	...	1.71	...	...	...	...	...	...	...	2	4.6	3.73	3.69	1.71	3.73	3.69	Kandi	Murshida-	...
...	...	...	0.40	...	...	...	...	...	...	...	1	4.6	3.94	3.59	1.50	3.94	3.59	Berhampore.	bad.	...
...	...	...	0.05	...	...	...	...	...	...	...	2	4.4	0.73	4.15	0.60	0.60	4.15	Lalbagh.	...	...
...	...	...	0.00	...	...	...	...	...	...	...	4	4.6	0.76	3.85	0.33	0.76	3.85	Azimganj.	...	...
...	...	...	0.17	...	...	...	...	...	...	...	6	3.9	1.41	3.28	0.30	1.41	3.28	Jangipur.	...	...
...	...	...	0.16	...	...	...	...	...	...	...	4	3.9	1.29	3.22	0.56	1.29	3.22	Lalgaon.	...	...
...	...	...	0.06	...	...	...	...	...	...	...	6	4.0	2.31	3.15	3.37	2.31	3.15	Akshayan.	...	...
...	...	...	0.23	...	...	...	...	...	...	...	3	3.5	1.70	3.51	1.18	1.70	3.51	Parikahari.	...	...
...	...	...	0.35	...	...	...	...	...	...	...	6	3.7	3.18	3.98	1.13	3.18	3.98	Dumkal.	...	...
...	...	...	0.16	...	...	...	...	...	...	...	3	3.7	3.71	3.50	1.95	3.71	3.50	Kalyanganj.	...	...
...	...	...	0.35	...	...	...	...	...	...	...	5	5.4	1.36	4.37	0.70	1.36	4.37	Narail	Jessore	...
...	...	...	0.80	...	...	...	...	...	...	...	2	5.6	2.00	4.71	1.10	2.00	4.71	Jessore.	...	...
...	...	...	0.53	...	...	...	...	...	...	...	5	5.4	3.51</							

(n) Not ascertained.



## DAILY RAINFALL RECORDED IN

[illegible]

\*Letter not received.



## BENGAL FOR THE MONTH OF OCTOBER 1919—contd.

1	2	3	4	5	6	7	8	9	10	11	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st June up to 31st Oct. 1919.	Normal rainfall from 1st June up to 31st Oct.	Station.	DISTRICT.	DIVISION.
...	...	0.02	0.03	...	...	...	...	...	...	...	2	5.4	0.86	6.75	0.86	6.75	6.75	Cumt.	Midnapore	Burdwan—contd.
...	...	0.03	0.08	...	...	...	...	...	...	...	4	4.6	1.93	3.94	1.10	1.93	1.93	Tamuk.	...	
...	...	0.03	1.60	...	...	...	...	...	...	...	4	5.1	1.64	3.71	0.67	1.64	1.64	Midnapore.	...	
...	...	...	0.13	...	...	...	...	...	...	...	5	5.4	4.34	3.16	1.80	4.34	4.34	Chatal.	...	
...	...	...	0.16	...	...	...	...	...	...	...	4	4.5	2.43	4.80	1.43	2.43	2.43	Kukrahati.	...	
...	...	...	0.16	...	...	...	...	...	...	...	4	4.9	1.63	3.84	1.18	1.63	1.63	Amikura.	...	
...	...	...	0.19	...	...	...	...	...	...	...	3	5.1	0.87	3.33	0.16	0.87	0.87	Panskura.	...	
...	...	...	0.18	...	...	...	...	...	...	...	3	4.0	0.60	4.46	0.80	0.60	0.60	Dautan.	...	
...	...	...	0.20	...	...	...	...	...	...	...	3	4.7	1.37	3.79	0.77	1.37	1.37	Chandrakona.	...	
...	...	...	0.20	...	...	...	...	...	...	...	3	5.0	1.49	4.23	1.15	1.49	1.49	Pachot.	...	
...	...	...	0.07	...	...	...	...	...	...	...	3	5.4	1.30	6.26	0.90	1.30	1.30	Bhagwanpur.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	(n)	4.7	3.08	(n)	3.19	2.55	(n)	Kultikri.	...	
...	...	...	...	...	...	...	...	...	...	...	(n)	5.0	...	(n)	...	...	(n)	Nayabasan.	...	
...	...	...	...	...	...	...	...	...	...	...	6	5.3	3.44	3.75	0.66	3.44	3.44	Bida (Nalpa-hari).	...	
...	...	...	...	...	...	...	...	...	...	...	5	5.2	3.11	3.16	0.86	3.11	3.11	Chandri.	...	
...	...	...	...	...	...	...	...	...	...	...	3	7.7	1.46	6.04	1.12	1.46	1.46	Qandari.	...	
...	...	...	...	...	...	...	...	...	...	...	4	6.6	1.73	5.74	0.94	1.73	1.73	Saltora.	...	
...	...	...	...	...	...	...	...	...	...	...	7	5.5	3.30	3.44	1.25	3.30	3.30	Narayanganj.	...	
...	...	...	...	...	...	...	...	...	...	...	5	7.9	3.87	4.85	2.01	3.87	3.87	Ramnagar.	...	
...	...	...	...	...	...	...	...	...	...	...	3	5.9	1.30	6.03	0.50	1.30	1.30	Mohamudpur.	...	
...	...	...	...	...	...	...	...	...	...	...	3	6.3	0.80	4.94	0.80	0.80	0.80	Moynam.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	4	6.3	1.30	4.09	0.40	1.30	1.30	Pinja.	...	
...	...	...	...	...	...	...	...	...	...	...	3	4.3	3.47	6.33	1.86	3.47	3.47	Narajole.	...	
...	...	...	...	...	...	...	...	...	...	...	2	5.3	0.43	4.10	0.31	0.43	0.43	Barampore.	...	
...	...	...	...	...	...	...	...	...	...	...	1	5.1	0.56	3.68	0.41	0.56	0.56	Hooghly.	...	
...	...	...	...	...	...	...	...	...	...	...	4	4.6	1.46	3.47	0.34	1.46	1.46	Aranyabagh.	...	
...	...	...	...	...	...	...	...	...	...	...	4	5.7	0.74	3.99	0.13	0.74	0.74	Howrah.	...	
...	...	...	...	...	...	...	...	...	...	...	4	4.7	3.95	3.61	2.40	3.95	3.95	Mohamudpur.	...	
...	...	...	...	...	...	...	...	...	...	...	5	6.0	3.35	3.31	1.18	3.35	3.35	Ulubaria.	...	
...	...	...	...	...	...	...	...	...	...	...	3	5.6	1.81	3.38	1.10	1.81	1.81	Amta.	...	
...	...	...	...	...	...	...	...	...	...	...	7	4.5	5.33	4.03	1.29	5.33	5.33	Bodla.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	2	4.6	3.68	3.73	3.05	3.68	3.68	Nator.	...	
...	...	...	...	...	...	...	...	...	...	...	6	2.7	4.01	3.59	1.54	4.01	4.01	Naugach.	...	
...	...	...	...	...	...	...	...	...	...	...	8	4.0	5.60	3.30	1.75	5.60	5.60	Bilmaria.	...	
...	...	...	...	...	...	...	...	...	...	...	6	3.8	7.11	3.14	3.50	7.11	7.11	Manda.	...	
...	...	...	...	...	...	...	...	...	...	...	6	4.1	4.29	3.38	1.66	4.29	4.29	Mahadebpur.	...	
...	...	...	...	...	...	...	...	...	...	...	6	3.9	3.48	3.25	1.00	3.48	3.48	Tanor.	...	
...	...	...	...	...	...	...	...	...	...	...	(n)	1.96	(n)	0.66	1.96	(n)	(n)	Chaugram.	...	
...	...	...	...	...	...	...	...	...	...	...	7	4.0	4.00	(n)	1.43	4.00	4.00	Jour.	...	
...	...	...	...	...	...	...	...	...	...	...	4	3.4	4.08	3.75	3.30	4.08	4.08	Nithpur.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	8	3.9	11.94	3.39	3.30	11.94	11.94	Narabaganj.	...	
...	...	...	...	...	...	...	...	...	...	...	6	3.1	7.59	3.87	3.04	7.59	7.59	Gangarampur.	...	
...	...	...	...	...	...	...	...	...	...	...	8	3.4	3.11	3.94	0.81	3.11	3.11	Chitamon.	...	
...	...	...	...	...	...	...	...	...	...	...	5	3.5	4.53	3.35	1.88	4.53	4.53	Raiganj.	...	
...	...	...	...	...	...	...	...	...	...	...	5	3.8	5.17	4.21	2.65	5.17	5.17	Dinajpur.	...	
...	...	...	...	...	...	...	...	...	...	...	5	3.8	6.09	3.75	1.80	6.09	6.09	Balughat.	...	
...	...	...	...	...	...	...	...	...	...	...	6	3.6	2.91	3.61	1.08	3.61	3.61	Thakurgaon.	...	
...	...	...	...	...	...	...	...	...	...	...	5	3.4	3.75	3.76	1.60	3.75	3.75	Sotabganj.	...	
...	...	...	...	...	...	...	...	...	...	...	4	3.3	3.03	3.19	1.00	3.03	3.03	Raiganj.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	NH	3.9	NH	3.96	NH	NH	NH	Atwari.	...	
...	...	...	...	...	...	...	...	...	...	...	6	4.1	4.59	3.39	3.75	4.59	4.59	Birganj.	...	
...	...	...	...	...	...	...	...	...	...	...	10	4.3	6.06	3.81	1.80	6.06	6.06	Parbatipur.	...	
...	...	...	...	...	...	...	...	...	...	...	3	4.8	4.30	4.87	1.80	4.30	4.30	Jalpaiguri.	...	
...	...	...	...	...	...	...	...	...	...	...	11	4.6	18.43	4.28	4.16	18.43	18.43	Alipur Duara.	...	
...	...	...	...	...	...	...	...	...	...	...	9	4.4	3.47	3.94	1.05	3.47	3.47	Falakata.	...	
...	...	...	...	...	...	...	...	...	...	...	9	3.8	4.85	3.86	3.44	4.85	4.85	Deliganj.	...	
...	...	...	...	...	...	...	...	...	...	...	9	5.1	13.06	6.28	3.29	13.06	13.06	Bhagatpur (Nagabata).	...	
...	...	...	...	...	...	...	...	...	...	...	To	9.4	13.00	10.08	3.10	13.00	10.08	Buxa.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	11	6.6	10.84	5.00	3.28	10.84	5.00	Kalchini.	...	
...	...	...	...	...	...	...	...	...	...	...	11	6.1	8.67	5.10	1.80	8.67	5.10	Kumargram.	...	
...	...	...	...	...	...	...	...	...	...	...	6	5.7	5.30	5.30	1.85	5.30	5.30	Siliguri.	...	
...	...	...	...	...	...	...	...	...	...	...	1	4.6	0.79	5.05	0.68	0.79	0.79	Darjeeling.	...	
...	...	...	...	...	...	...	...	...	...	...	1	3.3	0.19	3.97	0.10	0.19	0.19	Kalimpong.	...	
...	...	...	...	...	...	...	...	...	...	...	3	4.1	0.86	3.76	0.53	0.86	0.86	Mongra.	...	
...	...	...	...	...	...	...	...	...	...	...	3	6.5	1.37	5.83	1.03	1.37	1.37	Kurseong.	...	
...	...	...	...	...	...	...	...	...	...	...	3	5.3	...	3.74	...	...	...	Pedong.	...	
...	...	...	...	...	...	...	...	...	...	...	7	4.6	10.34	3.37	3.35	10.34	10.34	Bhawaniganj (Gatbandha).	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	8	4.1	13.30	4.89	4.80	13.30	4.89	Raagpur.	...	
...	...	...	...	...	...	...	...	...	...	...	8	4.2	10.63	4.39	3.30	10.63	4.39	Pirganj.	...	
...	...	...	...	...	...	...	...	...	...	...	7	3.8	13.33	4.78	6.03	13.33	4.78	Kuriganj.	...	
...	...	...	...	...	...	...	...	...	...	...	5	4.2	3.83	4.87	1.30	3.83	3.83	Gobindganj.	...	
...	...	...	...	...	...	...	...	...	...	...	6	3.9	4.07	3.87	3.15	4.07	4.07	Bagdogra (Naphanara).	...	
...	...	...	...	...	...	...	...	...	...	...	6	3.9	10.31	5.69	7.00	10.31	5.69	Ulupur.	...	
...	...	...	...	...	...	...	...	...	...	...	4	3.8	8.32	5.60	3.00	8.32	5.60	Sandarganj.	...	
...	...	...	...	...	...	...	...	...	...	...	5	3.9	5.71	3.11	1.52	5.71	3.11	Saldpur.	...	
...	...	...	...	...	...	...	...	...	...	...	3	4.9	1.98	4.17	1.23	1.98	1.98	Sherpur.	...	Burdwan—contd.
...	...	...	...	...	...	...	...	...	...	...	4	4.6	3.35	4.54	1.73	3.35	3.35	Nowkhilla.	...	
...	...	...	...	...	...	...	...	...	...	...	5	5.0	1.24	4.31	0.80	1.24	1.24	Bogra.	...	
...	...	...	...	...	...	...	...	...	...	...	7	4.3	6.43	4.19	3.83	6.43	3.83	Panchbibi.	...	
...	...	...	...	...	...	...	...	...	...	...	5	(n)	2.63	(n)	0.66	2.63	(n)	Khetlal.	...	
...	...	...	...	...	...	...	...	...	...	...	5	5.0	5.09	4.37	3.03	5.09	4.37	Shahzadpur.	...	
...	...	...	...	...	...	...	...	...	...	...	6	5.1	1.31	3.95	0.43	1.31	1.31	Pabna.	...	
...	...	...	...	...	...	...	...	...	...	...	7	4.8	4.11	4.23	1.73	4.11	4.23	Sirajganj.	...	
...	...	...	...	...	...	...	...	...	...	...	5	4.5	1.30	4.27	0.30	1.30	1.30	Sara.	...	

(n) Not ascertained.



## DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
RAJ- SHAMI.	Malda	Malda	...	0.55	0.31	0.20	1.00	0.19	...	0.03	0.07	0.35	0.04	...	...	...	...	...	...	...	...	...	
		Chanchal	...	...	0.23	0.16	0.02	...	...	...	0.17	0.75	0.48	...	...	...	...	...	...	...	...	...	
		Basol	...	...	...	...	...	...	...	0.80	0.60	2.30	0.50	2.30	...	...	...	...	...	...	...	...	
		Aliganj	0.01	...	...	0.44	1.20	...	...	0.65	...	0.04	...	0.37	...	...	...	...	...	...	...	...	
Dacca	Dacca	Gomastapur	...	...	1.51	1.81	...	0.61	...	...	0.31	...	0.25	...	...	...	...	...	...	...	...	...	
		Nawabganj	...	...	...	1.10	2.15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Munshiganj	0.37	...	0.28	...	...	...	0.07	...	...	...	...	0.64	...	...	...	...	...	...	...	...	
		Dacca	0.17	...	0.14	0.05	...	...	...	0.01	...	...	0.02	0.01	0.20	0.11	...	...	...	...	...	...	
Dacca	Dacca	Nawabganj	0.70	0.60	0.51	...	...	...	...	0.00	0.00	0.20	0.27	0.53	...	0.23	...	...	...	...	...		
		Narayanganj	0.29	...	0.55	0.03	...	...	0.16	...	0.09	0.27	0.09	...	...	...	...	...	...	...	...	...	
		Nardokdi	0.18	0.76	0.79	0.52	0.26	...	0.23	0.23	0.22	0.09	...	...	...	...	...	...	...	...	...	...	
		Maulikganj	0.55	...	0.63	0.20	0.75	2.25	...	...	0.13	0.13	0.11	0.09	0.23	...	...	...	...	...	...	...	
Dacca	Dacca	Joydebpur	0.26	...	1.40	1.04	...	0.14	...	0.45	0.09	...	...	...	...	...	...	...	...	...	...	...	
		Kapada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Mymensingh	Kishorganj	0.30	...	2.04	1.45	4.41	...	...	0.35	1.10	4.20	...	...	...	...	...	...	...	...	...	...
		Atia (Tungail)	...	...	...	0.34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Dacca	Dacca	Sarishbari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Mymensingh	2.02	...	1.92	0.20	0.54	0.03	0.17	...	0.55	1.45	0.17	0.05	...	...	...	...	...	...	...	...	
		Jamulpur	1.24	...	2.26	...	0.08	...	...	...	0.37	0.15	0.05	...	...	...	...	...	...	...	...	...	
		Netrokona	0.34	0.46	2.53	0.74	0.05	0.36	...	0.53	2.60	0.86	0.44	...	...	...	...	...	...	...	...	...	
Dacca	Dacca	Pingua	0.20	0.45	2.45	0.20	1.25	...	...	...	2.00	...	0.80	...	...	...	...	...	...	...	...	...	
		Dungapur	1.30	0.22	1.71	0.11	0.34	0.06	0.55	0.10	1.04	1.18	...	...	...	...	...	...	...	...	...	...	
		Sherpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		(Town)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Dacca	Faridpur	Downanjan	0.22	...	1.71	...	0.38	...	...	0.26	0.24	0.40	0.32	...	...	...	...	...	...	...	...	...	
		Nalitabari	0.20	1.55	2.50	...	...	...	...	1.45	1.00	1.47	...	...	...	...	...	...	...	...	...	...	
		Madaripur	...	...	...	...	0.76	0.16	0.76	0.15	...	...	0.39	...	0.09	...	...	...	...	...	...	...	
		Faridpur	...	...	...	...	0.76	0.16	0.76	0.15	...	...	0.39	...	0.09	...	...	...	...	...	...	...	
Dacca	Faridpur	Kajhal	...	0.49	0.50	0.88	0.17	0.43	...	...	0.20	...	0.47	...	...	...	...	...	...	...	...	...	
		(Gaulando)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Haridpur	0.08	0.21	1.51	...	0.07	0.07	0.40	0.09	...	1.37	0.46	0.09	...	...	...	...	...	...	...	...	
		Takerhat	0.10	...	0.08	...	...	...	...	...	...	1.25	...	...	...	...	...	...	...	...	...	...	
Dacca	Faridpur	Bhanga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Pangra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Baitakandi	0.31	0.04	...	2.16	0.02	...	...	...	0.34	...	0.18	...	...	...	...	...	...	...	...	...	
		Bhuna	...	0.20	...	0.15	0.10	...	...	0.18	...	...	...	...	0.15	...	...	...	...	...	...	...	
Dacca	Baharganj	Palong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Patuakhali	...	0.60	0.06	0.10	0.06	0.22	...	...	0.02	0.10	0.65	0.28	...	...	...	...	...	...	...	...	
		Barguna	...	...	...	...	...	...	...	0.14	...	0.12	0.55	0.34	...	0.15	0.09	...	...	...	...	...	
		Proppur	...	0.05	0.40	0.05	0.50	...	...	...	0.05	0.03	...	0.21	...	...	...	...	...	...	...	...	
Dacca	Baharganj	Darinal	...	...	1.27	0.09	0.49	...	...	0.32	...	0.38	...	...	...	...	...	...	...	...	...	...	
		Gauradi	0.14	0.03	...	0.04	0.13	...	...	...	...	0.18	...	0.43	...	...	...	...	...	...	...	...	
		Bhola	...	...	...	0.30	0.10	0.05	...	...	0.08	0.12	0.09	...	...	...	...	...	...	...	...	...	
		Daulatkhan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Dacca	Baharganj	Bauphal	0.33	0.40	0.20	...	...	...	0.70	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Chittagong	Cox's Bazar	0.06	...	...	0.26	...	0.06	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chittagong	...	...	...	0.09	...	0.07	...	...	...	0.40	...	...	...	...	...	...	...	...	...	...	
		Kutubdia	0.47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Dacca	Chittagong	Satkalia	0.05	0.20	0.20	0.25	...	...	...	0.06	1.35	...	...	...	...	...	...	...	...	...	...	...	
		Kodalia	...	0.73	...	0.40	...	0.21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Mirsari	0.10	...	...	...	...	0.08	0.08	0.15	0.30	...	...	...	...	...	...	...	...	...	...	...	
		Tippura	Gomilla	0.25	...	...	0.50	...	0.25	...	...	1.09	0.59	0.10	...	...	...	...	...	...	...	...	
Dacca	Tippura	Chandpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Brahmanbaria	1.23	...	...	...	...	0.20	...	0.03	...	0.65	0.25	...	...	...	...	...	...	...	...	...	
		Ramchandrapur	...	0.61	...	...	0.23	...	...	1.06	...	...	...	...	...	...	...	...	...	...	...	...	
		Nasirpur	...	...	1.25	0.26	...	1.20	0.55	0.20	...	0.45	0.65	...	...	...	...	...	...	...	...	...	
Dacca	Tippura	Dandkandi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Kanta	0.60	...	...	...	...	0.70	...	...	...	1.25	...	...	...	...	...	...	...	...	...	...	
		Latan	...	...	0.20	0.51	...	...	0.03	...	1.72	0.25	0.60	...	...	...	...	...	...	...	...	...	
		Noakhali	Noakhali	0.18	0.28	...	0.18	...	0.22	...	0.29	0.70	0.03	0.22	...	...	...	...	...	...	...	...	...
Dacca	Noakhali	Peni	0.13	0.32	...	...	0.48	...	...	0.22	1.65	0.05	0.16	...	...	...	...	...	...	...	...	...	
		Barishpur	0.04	0.08	0.11	...	...	0.03	0.01	0.40	0.42	0.81	0.27	...	...	...	...	...	...	...	...	...	
		Ramganj	...	...	...	...	0.07	...	...	0.05	...	...	...	...	...	...	...	...	...	...	...	...	
		Chhagalnaya	...	...	0.62	...	...	...	...	0.20	0.20	0.28	...	...	...	...	...	...	...	...	...	...	
Dacca	Hill Tippe- ra.	Hatya	0.08	...	0.15	0.42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Lakshmipur	...	...	0.19	0.15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Chittagong	Rangamati	...	0.63	...	0.40	...	...	0.09	...	0.56	...	1.02	...	...	...	...	...	...	...	...	
		Bandarban	...	0.42	...	...	0.22	...	...	0.08	0.22	...	...	...	...	...	...	...	...	...	...	...	
Dacca	Hill Tippe- ra.	Barkal	...	...	...	...	...	...	...	...	...	0.05	...	...	...	...	...	...	...	...	...	...	
		Mahaleri	0.24	0.05	...	...	...	0.05	...	0.80	...	...	...	...	...	...	...	...	...	...	...	...	
		Lama	...	...	...	1.10	...	...	...	...	0.34	0.20	0.16	...	...	...	...	...	...	...	...	...	
		Rangarh	0.29	0.43	0.07	...	...	...	0.24	0.29	...	...	...	...	...	...	...	...	...	...	...	...	
Dacca	Hill Tippe- ra.	Agartala	0.17	0.24	...	0.61	0.08	...	...	0.55	0.25	1.39	...	...	...	...	...	...	...	...	...	...	
		Cooh Behat.	Dishata	...	1.25	0.04	0.27	0.11	...	1.25	1.04	0.59	0.67	0.38	...	...	...	...	...	...	...	...	
		Cooh Behat	...	0.09	5.30	2.90	0.02	0.20	...	...	2.20	0.80	0.60	1.10	...	...	...	...	...	...	...	...	
		Mickliganj	...	0.78	0.05	0.78	0.02	...	...	0.47	2.56	1.80	...	...	...	...	...	...	...	...	...	...	
Dacca	Cooh Behat.	Mathabang	0.2	...	0.01	0.46	0.18	...	...	0.23	0.43	0.60	0.23	0.06	0.07	0.01	...	...	...	...	...	...	
		Pulbait	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		(Tufanganj).	...	3.24	0.06	2.44	0.05	1.62	1.51	2.56	0.42	0.77	2.70	2.82	...	...	...	...	...	...	...	...	



## BENGAL FOR THE MONTH OF OCTOBER 1919—continued.

1	2	3	4	5	6	7	8	9	10	11	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Excess rainfall during the month.	Total rainfall from 1st to 31st October 1919.	Normal rainfall from 1st to 31st October.	Station.	DISTRICT.	DIVISION.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Malda.	Malda	RAJSHAH.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Chanchal.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gozol.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ribganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gomastapur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nawabganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Dacca	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mumshiganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dacca.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nawabganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Narayanganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Narayanpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Manikganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Joydebpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kapasia.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Mymensingh	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kishorganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Atla (Fungall).		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Barisalbari.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mymensingh.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Jamshilpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Notokona.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pingna.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dagapur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shierpur (Tosa).		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Dacca	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Duwanganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nalitabari.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Faridpur	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Madaripur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Faridpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Rajshahi.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(Gauland).		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Haridaspur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Takhat.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Blanga.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pangsa.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bahakandi.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bhuma.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Paloog.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Bakarganj	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Patuakhali.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bangura.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pirpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Barisal.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gauradi.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bhola.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Daulatkhani.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bauphal.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Chittagong	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Cox's Bazar.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Chittagong.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kutubdia.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Satkhua.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kodala.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mirsarai.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Tippera	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Comilla.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Chandpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Brakmanbaria.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ramchandrapur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nasiragar.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dandkandi.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kasba.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Lakson.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Noakhali	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Noakhali.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Feni.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Harishpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Banganj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ch'agalinaya.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Hatiya.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Lakhimpur.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Chittagong Hill Tracts.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Rangamati.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bandarban.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Barak.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Matacheri.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Lama.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Rangarh.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Hill Tippera	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Agartala.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Cooch Behar	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dinabata.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Cooch Behar.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mitikanj.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mathabanga.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Putari.		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(Tufanganj.)		

(n) Not ascertained.

J. C. ROY,  
for Director of Agriculture, Bengal.



## IRRIGATION DEPARTMENT, BENGAL.

**Abstract Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of September 1919, as compared with the corresponding month of the previous year.**

Canals.	1919-20.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
	Tons.	Tons.	No.	No.	Rs.	Rs.
<b>I.—Major Works.</b>						
Midnapore Canal ...	6,780	43,283	610	7,554	2,995	22,238
Hijili Tidal Canal ...	12,341	58,948	125	2,562	9,049	46,735
Total ...	19,121	102,226	735	10,116	12,044	68,973
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	96,936	216,634	370	7,380	20,610	1,98,041
Tolly's Nala ...	18,409	102,982	11,627	76,327	6,320	35,485
Madaripur Bheel ...	158,074	680,579	4	1,051	36,562	1,56,571
Total ...	213,419	1,000,195	12,001	84,758	63,492	3,30,097
Magrahat Channels ...	5,303	94,673	...	...	2,183	11,866
Orissa Coast Canal ...	3,611	24,472	100	2,575	1,145	6,907
Nadia Rivers ...	6,850	25,988	42,000	431,693	1,063	5,428
GRAND TOTAL ...	229,183	1,085,328	54,101	519,026	67,883	3,54,298

Canals.	1918-19.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
	Tons.	Tons.	No.	No.	Rs.	Rs.
<b>I.—Major Works.</b>						
Midnapore Canal ...	9,015	52,078	500	4,400	4,534	30,460
Hijili Tidal Canal ...	12,321	43,564	...	1,202	9,579	38,882
Total ...	21,336	95,642	500	5,602	14,113	69,342
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	37,616	243,931	772	13,245	23,760	1,49,097
Tolly's Nala ...	20,523	102,637	756	40,572	8,776	36,693
Madaripur Bheel ...	170,586	850,578	332	1,031	37,671	1,86,892
Total ...	228,725	1,197,146	1,860	54,848	70,207	3,72,682
Magrahat Channels ...	5,989	24,842	...	...	2,538	12,591
Orissa Coast Canal ...	4,186	21,660	112	5,817	1,396	7,634
Nadia Rivers ...	11,871	46,885	92,832	380,767	2,012	10,020
GRAND TOTAL ...	250,771	1,290,533	94,804	441,432	76,153	4,02,927

CALCUTTA,  
The 24th November 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**Statement of deaths ascertained to be due to starvation or to have been accelerated by privation for the quarter ending 30th September 1919.**

Serial No.	District.	Name	Residence.	Age.	Date.	Remarks.
1	2	3	4	5	6	7
1	Nadia ...	Sandesh Bibi...	Kodali (police-station Daulatpur).	25 or 26 years	1919. 3rd August	Death due to suicide by hanging on account of privation.
2	Murshidabad...	Pratap Konai...	Gop'ala nagar (police-station Nabagram).	Not reported...	17th August	Death due to suicide. The man was suffering from fever for about three months before his death and was thus unable to earn money to support his family and committed suicide by hanging.
3	24-Parganas ...	Rajendra Mandal.	Chak Kendua (Moheastola police-station).	15 years ...	18th August	His father went to Manbhum leaving the son in charge of the family. The father's letters miscarried and the son in despair having been unable to support the family committed suicide by hanging.
4	Dacca ...	Sadarjan ...	Harirampur police-station.	Not reported...	31st August	Death due to suicide on account of privation.
5	Hooghly ...	Akun Mohata	Bankura district	About 45 years	12th September.	Death due to illness accelerated by privation. Died at Itachona hospital.

NOTE.—A case in Khulda is under enquiry. The statements in respect of other districts are blank.

CALCUTTA,  
The 25th November 1919.

M. C. MCALPIN,  
Secy. to the Govt. of Bengal.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 15th November 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
9th November	7 A.M.	15.5	15.5	13.0	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
10th	7 "	15.3	15.3	12.8	
11th	7 "	15.3	15.3	12.6	
12th	7 "	15.1	15.1	12.5	
13th	7 "	14.8	14.8	12.3	
14th	7 "	14.5	14.5	12.1	
15th	7 "	14.1	14.1	12.0	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 31st August 1893.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	25.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 13th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	8.16 on 9th to 11th March 1885.
Do.	...	Ditto	...	8.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,  
The 18th November 1919

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 25th October 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
19th Oct.	68.05	...	...	...	...	63.0	
20th "	62.9	...	...	...	...	62.8	
21st "	62.7	...	...	...	...	62.65	
22nd "	62.6	...	...	...	...	62.55	
23rd "	62.5	...	...	...	...	62.4	
24th "	62.2	...	...	...	...	62.2	
25th "	62.05	...	...	...	...	62.1	

**Notable high and low water-levels of previous years.**

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.16	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	68.12	Taken at low tide.
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1913	...	...	...	50.60	
22nd February	1915	...	...	...	50.30	
16th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

Dacca,

The 29th October 1919.

W. J. KERR,

Executive Engr., Dacca Division.

**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 15th November 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
9th November ...	8 A.M.	Zero of gauge is at mean sea level.	44.60	42.16	B. M. on College step corrected, 64.93.
10th "	8 "		44.35	42.11	
11th "	8 "		44.15	42.01	
12th "	8 "		44.10	41.91	
13th "	8 "		43.85	41.81	
14th "	8 "		43.80	41.71	
15th "	8 "		43.70	41.51	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	Highest water-level	...	66.52 on 30th August 1918	61.71
Ditto	Lowest "	...	41.70 on 21st April 1918	36.89
Record	Highest "	...	69.25 on 26th August 1870	64.44
Do.	Ditto	...	69.08 on 9th September 1886	64.27
Do.	Ditto	...	68.30 on 25th August 1906	63.47
Do.	Ditto	...	68.21 on 26th August 1890	63.40
Do.	Lowest "	...	37.63 on 26th April 1881	32.82
Do.	Ditto	...	38.18 on 14th-15th April 1898	33.82
Do.	Ditto	...	39.02 on 21st-22nd April 1897	34.21
Do.	Ditto	...	39.28 on 5th-7th May 1908	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

Boalia,

The 15th November 1919.

M. SENGUPTA,

Executive Engineer, Rajshahi Divn.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 3, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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### LIBERALITY OF BABU SAILAJA NATH RAI CHOWDHURY AND BROTHERS, ZAMINDARS OF SATKHIRA, IN THE DISTRICT OF KHULNA.

No 4032M., dated Calcutta, the 27th November 1919.

From—The Hon'ble Mr. L. S. S. O'MALLEY, C.I.E., I.C.S., Secretary to the Government of Bengal, Municipal Department.

To—The Commissioner of the Presidency Division.

WITH reference to your letter No. 81Mis.-G., dated the 16th October 1919, regarding the donation of Rs. 20,000 made by Babu Sailaja Nath Rai Chowdhury and brothers, zamindars of Satkhira, towards the Satkhira water-works, I am directed to request that the thanks of Government may be communicated to them for their liberality and public spirit.



# REPORT ON THE STATE OF THE SALT MARKET FOR THE SECOND QUARTER OF THE YEAR 1919-20.

## GOVERNMENT OF BENGAL.

### FINANCIAL DEPARTMENT.

Separate Revenue Branch (Salt).

No. 33008.R.

*Dated Calcutta, the 28th November 1919.*

THE following report on the state of the salt market for the second quarter of the year 1919-20, comprising the months of July, August and September 1919, in the Presidency of Bengal, is published for general information.

2. The quantity of salt of every description cleared during the quarter amounted to 2,892,168 maunds (including 2,275,152 maunds issued under the credit system), as compared with 2,071,412 maunds (including 1,506,424 maunds issued under the credit system) in the previous quarter and 3,047,605 maunds (including 2,388,658 maunds issued under the credit system) in the corresponding quarter of the previous year. The net amount of duty levied was Rs. 39,68,466 (including Rs. 32,00,209 adjusted under the credit system), as against Rs. 24,72,946 (including Rs. 17,71,330 adjusted under the credit system) in the previous quarter, and Rs. 31,87,150 (including Rs. 23,82,659 adjusted under the credit system) in the corresponding quarter of the previous year.

3. The subjoined Table I shows in detail the importations into the Port of Calcutta and the total clearances of sea-imported salt during the quarter, compared with the figures of the corresponding quarters of the two previous years:—

Table

Whence imported.	1917-18.		1918-19.		1919-20.	
	SECOND QUARTER.		SECOND QUARTER.		SECOND QUARTER.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
1	2	3	4	5	6	7
	M. ls.	Mds.	Mds.	Mds.	Mds.	Mds.
United Kingdom ... ..	142,929	24,161	288,808	66,693	540,283	467,694
Hamburg and Bremen ... ..	...	...	...	...	...	...
Port Said ... ..	650,811	586,989	1,279,867	1,489,848	1,078,481	1,041,898
Spain ... ..	...	134,920	...	28,670	168,984	179,168
Salif ... ..	...	...	...	...	...	...
Aden ... ..	589,007	686,484	667,571	710,810	451,086	548,680
Rock Salt ... ..	...	...	...	...	...	...
Bombay ... ..	...	642	...	4,084	...	...
Massowah ... ..	804,890	288,902	370,976	408,712	808,519	302,646
Madras, Coconada, Vizagapatam, Masuli- patam, etc. ... ..	2,904	...	...	...	...	...
Hong Kong ... ..	...	...	...	...	...	1
Natal ... ..	...	...	...	...	...	2
Australia (Victoria) ... ..	...	...	...	16	...	...
South Australia ... ..	...	...	...	...	...	86
Queensland ... ..	...	...	...	...	...	35
United States of America (Pacific Coast) ... ..	...	...	...	88	...	56
Ceylon ... ..	...	16	...	8	...	...
France ... ..	...	...	...	...	...	8
Total ... ..	1,690,841	1,616,904	2,566,721	2,667,718	2,687,262	2,638,663*

\* Inclusive of 2,275,152 maunds of salt issued under the credit system.



Compared with the corresponding quarter of the previous year and the same quarter of 1917-18, importations were less by .8 and more by 50.1 per cent., respectively, and clearances were less by 4.4 and more by 57.1 per cent., respectively. As compared with the corresponding period of the previous year, the increased imports from the United Kingdom and Spain, and decreased imports from Port Said, Aden and Massowah, are noticeable. There were no imports during the quarter from Madras and Bombay.

4. Table II shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the preceding four quarters:—

Table II.

Where stored.	Second quarter of 1918-19.	Third quarter of 1918-19.	Fourth quarter of 1918-19.	First quarter of 1919-20.	Second quarter of 1919-20.
1	2	3	4	5	6
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government Salt <i>golas</i> ...	1,232,887	561,981	1,055,301	204,757	318,710
Chittagong Salt <i>golas</i> ...	629,380	383,965	295,871	79,499	35,758
Narayanganj (private bonded Salt warehouses) ...	11,302	19,280	27,453	5,955	16,347
Bhairab Bazar (private bonded Salt warehouses) ...	1,465	...	10,000	7,005	2,237
Jhalakati (private bonded Salt warehouses)...	20,631	31,441	23,611	25,155	16,015
Madaripur (private bonded Salt warehouses)	...	...	...	415	585
Chandpur (private bonded Salt warehouses)...	5,773	1,363	2,206	...	...
Total ...	1,901,438	998,030	1,413,942	322,786	389,652

5. The figures showing the despatches of salt from Calcutta by different routes during the quarter under report will be published as usual in the *Calcutta Gazette* by the Director of Statistics with the Government of India when they are available

6. The quantity of salt despatched during the quarter by the East Indian Railway to stations beyond Buxar was *nil* as in the previous quarter, and in the corresponding quarter of the previous year.

7. The quantity of saltpetre salt excised in the refineries of Bengal during the quarter amounted to *nil*, as compared with *nil* in the previous quarter and 138 maunds in the corresponding quarter of the previous year.

8. No information was available concerning the shipments of Liverpool salt during the quarter for the Port of Calcutta.

9. Table III shows the average wholesale prices\* per 100 maunds of salt at the Port of Calcutta during each fortnight of the quarter:—

Table III.

Description of salt.	Fortnight ending the 15th July 1919.	Fortnight ending the 31st July 1919.	Fortnight ending the 16th Aug. 1919.	Fortnight ending the 31st Aug. 1919.	Fortnight ending the 16th Sept. 1919.	Fortnight ending the 30th Sept. 1919.
1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Liverpool <i>panga</i> ...	...	188 0 0	188 0 0	188 0 0	188 0 0	188 0 0
Spanish <i>karkuch</i> ...	183 0 0	183 0 0	183 0 0	183 0 0	183 0 0	...
Port Said <i>karkuch</i> ...	...	...	...	...	...	...
Port Said crushed	180 0 0	180 0 0	180 0 0	180 0 0	180 0 0	180 0 0
Aden crushed ...	180 0 0	180 0 0	...	180 0 0	180 0 0	...
Salif crushed ...	...	...	...	...	...	...
Bombay <i>karkuch</i> ...	...	...	...	...	...	...
Madras salt ...	110 0 0	110 0 0	110 0 0	110 0 0	110 0 0	110 0 0

\* The prices are exclusive of the Port Commissioners' special toll of 4 annas per ton and Customs duty of Rs. 1-4 per maund.



10. The subjoined Table IV shows the average wholesale prices per 100 maunds of salt at the Port of Chittagong during each fortnight of the quarter :—

Table IV.

Description of Salt.	Fortnight ending the 16th July 1919.	Fortnight ending the 31st July 1919.	Fortnight ending the 16th August 1919.	Fortnight ending the 31st August 1919.	Fortnight ending the 16th September 1919.	Fortnight ending the 30th September 1919.
1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Aden ...	189 1 0	189 1 0	...	189 1 0	189 1 0	189 1 0
Spanish ...	...	192 3 0	192 3 0	192 3 0	192 3 0	192 3 0
Port Said ...	189 1 0	189 1 0	189 1 0	...	...	...

11. Table V below shows the quantities of sea-imported salt admitted into bond and cleared from bond and shipboard at the Port of Chittagong and at the several inland warehousing stations :—

Table V.

Port or station.	Description of salt.	ADMITTED INTO BOND.		CLEARED FROM BOND AND SHIPBOARD.	
		Second quarter of 1918-19.	Second quarter of 1919-20.	Second quarter of 1918-19.	Second quarter of 1919-20.
1	2	3	4	5	6
		Mds.	Mds.	Mds.	Mds.
Chittagong	English panga ...	...	...	...	...
	Aden ...	...	90,660	116,293	89,517
	Hamburg ...	...	...	...	...
	Spanish ...	...	68,486	38,146	76,593
	Port Said ...	515,260	...	153,775	69,211
Narayanganj	English panga ...	15,000	44,992	10,000	39,608
	Aden ...	2,500	8,000	2,930	7,372
	Spanish ...	10,082	3,000	9,260	5,441
	Port Said ...	2,500	...	3,368	...
	Massowah ...	5,000	5,000	4,950	4,950
Jhalakati	English panga ...	16,365	29,980	9,000	40,995
	Spanish ...	...	500	2,179	500
	Massowah ...	3,100	3,100	3,069	3,069
	Port Said ...	11,300	3,100	11,195	3,069
	Aden ...	...	1,000	...	990
Bhairab Bazar	English panga ...	...	5,000	7,800	9,700
	Spanish ...	...	...	...	...
Madaripur	English panga ...	...	...	...	...
	Massowah ...	...	1,000	...	990
	Spanish ...	...	...	...	...
	Port Said ...	...	1,000	...	500
Chandpur	Aden ...	10,915	...	12,073	...
	Port Said ...	1,940	...	5,849	...
	Total ...	593,982	264,818	389,887	352,505

As compared with the corresponding quarter of the previous year, the quantities admitted into bond and cleared from bond and shipboard were less by 55.4 and 9.6 per cent., respectively.

By order of the Governor in Council,

A. MARR,  
Secretary to the Govt. of Bengal.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 27th November 1919.

**Summary.**—The week was practically rainless. Reaping of winter paddy and sowing of spring crops continue. Vegetables and other standing crops are doing well. The average price of common rice for the province has fallen by about 3.36 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	{ 5 6½	{ 5½ 6½	<i>Rabi</i> crops are being sown. Harvesting of sugarcane and winter paddy continues. Water is sufficient. Prospects of standing crops are good.
	Diamond Harbour.	Nil	{ 5 6½	{ (n)	
	Barrackpore	(n)	(n)	{ 4½ 6	
	Barasat ...	(n)	(n)	4½	
	Basirhat ...	Nil	{ 5 5½	{ 5 5½	
2	NADIA ...	Nil	{ 5½ 6½	{ 5½ 6½	Prospects of standing crops are favourable. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	Nil	5	5	
	Meherpur ...	Nil	{ 5½ 5½	{ 5½ 5½	
	Chuadanga ...	Nil	{ 5½ 6	{ 5½ 6	
	Ranaghat ...	Nil	5	4½	
3	MURSHIDABAD	Nil	5†	{ 4½ to 4½†	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops still continues. Fodder is sufficient. No large import or export of rice. Cattle-disease is reported from Murshidabad thana in Lalbagh subdivision.
	Lalbagh ...	Nil	{ 5† 6½	{ 5½†	
	Jangipur ...	Nil	5½†	5½†	
	Kandi ...	Nil	5½†	4½†	
4	JESSORE ...	Nil	{ 5½ 6	{ 6 6	Standing crops are doing well. Sowing of <i>rabi</i> crops and harvesting of winter paddy continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	Nil	5	5	
	Magura ...	Nil	5	5	
	Narail ...	Nil	{ 5½ 6	{ 6½ 6½	
	Bangaon ...	Nil	6	6	
5	KHULNA ...	Nil	{ 5 5½	{ 5 5½	Harvesting of early <i>aman</i> is in progress. Cattle-disease is reported from Paikgacha in Sadar subdivision and from Protapnagore in Satkhira subdivision. Fodder and water supply are improving in Satkhira subdivision.
	Satkhira ...	Nil	{ 4½ 5½	{ (n)	
	Bagerhat ...	Nil	{ 5½ 5½	{ 5½ 5½	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision	Rainfall.	PRICE OF COMMON RICE IN SERIES, PRA RUPK.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	Nil	5	5	Weather cold and slightly cloudy. Sowing of potatoes and other <i>rabi</i> crops is going on. Sugarcane and vegetables are doing well. Harvesting of early winter paddy continues.
	Asansol ...	0.03	6½	6	
	Katwa ...	Nil	5½	5½	
	Kalma ...	Nil	4½ <sup>9</sup> / <sub>16</sub>	4½ <sup>9</sup> / <sub>16</sub>	
7	BIRBHUM ...	Nil	6½	6	Aman paddy is being harvested. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	Nil	6	6	
8	BANKURA ...	0.10	5½	6	Export of rice and paddy is going on. Reaping of <i>aman</i> paddy continues. Preparation of land for <i>rabi</i> crops continues. Prospects of sugarcane are good.
	Vishnupur...	Nil	7½	6½	
9	MIDNAPORE	Nil	{ 5½ 6½† 6½• }	{ 4½ <sup>7</sup> / <sub>16</sub> 5½† 5½ <sup>3</sup> / <sub>8</sub> † }	Harvesting of winter paddy and sowing of <i>rabi</i> crops are progressing. Prospects of standing crops are fair. Fodder is sufficient.
	Ghatal ...	Nil.	{ 5½† 6½† 6½† }	{ 4½ <sup>1</sup> / <sub>16</sub> † 5½ <sup>1</sup> / <sub>16</sub> † 6½† }	
	Tamluk ...	Nil	{ 4½ <sup>1</sup> / <sub>16</sub> † 5½ <sup>1</sup> / <sub>16</sub> † 6½† }	{ 4½ <sup>1</sup> / <sub>16</sub> † 5½ <sup>1</sup> / <sub>16</sub> † 5½† }	
	Contai ...	Nil	5½	{ 4½† 5½• }	
10	HOOGLY ...	Nil	{ 4½ <sup>7</sup> / <sub>16</sub> 5½ <sup>5</sup> / <sub>16</sub> to 6½• }	{ 4½ <sup>7</sup> / <sub>16</sub> 5½ <sup>5</sup> / <sub>16</sub> to 6½• }	
	Serampore ...	Nil	{ 5½• 6½• }	5½	Effects of weather on the growth of the crops are favourable. Fodder is sufficient.
	Arambagh ...	Nil	6½	6½	
11	HOWRAH ...	Nil	{ 4½ <sup>7</sup> / <sub>16</sub> 6½• 4½• }	{ 4½ <sup>7</sup> / <sub>16</sub> 6½• 4½• }	Harvesting of <i>aman</i> paddy has commenced. Sowing of <i>rabi</i> crops continues. Prospects of sugarcane are fair. Fodder is sufficient.
	Ulubaria ...	Nil	{ 4½ <sup>7</sup> / <sub>16</sub> 6½• 6½• }	{ 4½ <sup>7</sup> / <sub>16</sub> 6½• 6½• }	
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	{ 5½ <sup>7</sup> / <sub>16</sub> 6½• }	{ 4½ <sup>7</sup> / <sub>16</sub> 5½• }	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops is completed. Harvesting of winter paddy has begun. Fodder is sufficient.
	Naogaon ...	Nil	6½	{ 4½• 5½• }	
	Nator ...	Nil	{ 4½ <sup>7</sup> / <sub>16</sub> 5½• }	{ 4½ <sup>7</sup> / <sub>16</sub> 5½• }	
13	DINAJPUR ...	Nil	{ 4½ <sup>1</sup> / <sub>16</sub> 6• }	{ 4½ <sup>1</sup> / <sub>16</sub> 6• }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Thakurgaon	Nil	4½	4½	
	Balurghat ...	Nil	4½	{ 3½ <sup>1</sup> / <sub>16</sub> 5½ <sup>1</sup> / <sub>16</sub> • }	
14	JALPAIGURI...	Nil	{ 4½ <sup>1</sup> / <sub>16</sub> 6• }	{ 4½ <sup>1</sup> / <sub>16</sub> 6• }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	Nil	{ 4½ <sup>1</sup> / <sub>16</sub> 6• }	{ 4½ <sup>1</sup> / <sub>16</sub> 6• }	

\*Burma rice.

† Coarse rice

‡ Aus rice.

§ cw.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
15	DARJEELING	0.73	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	Winter paddy, cardamom and <i>marua</i> are being harvested. Winter potatoes are being sown in places. Stock of ordinary rice and Burma rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	
	Siliguri ...	Nil	$\left\{ \begin{array}{l} 5 \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 5 \\ 6 \end{array} \right.$	
	Kalimpong...	(n)	(n)	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	
16	RANGPUR ...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 3\frac{1}{2} \end{array} \right.$	Sowing of <i>rabi</i> crops and harvesting of winter paddy are in progress. Stocks of Burma rice have been exhausted in Nilphamari and Kurigram subdivisions. Fodder and water are sufficient.
	Nilphamari	Nil	$5\frac{1}{8}$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{8} \end{array} \right.$	
	Kurigram ...	Nil	4	4	
	Gaibandha ...	Nil	$\left\{ \begin{array}{l} 5 \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	
17	BOGBA ...	Nil	$6\frac{1}{2} \dagger$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops and harvesting of winter paddy continue.
18	PABNA ...	Nil	$\left\{ \begin{array}{l} 5 \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$	The recent rain has benefited the standing crops. Prices are rising at Sirajganj. Fodder is sufficient.
	Sirajganj ...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	(n)	
19	MALDA ...	Nil	5	$\left\{ \begin{array}{l} 5 \\ 6\frac{1}{2} \end{array} \right.$	Prospects of standing crops are good. Fodder and water sufficient. Cattle-disease is reported from Shibganj and Gomastapur thanas.
20	COOCH BEHAR	Nil	$5\frac{1}{2}$	5	Weather reasonable. Harvesting of <i>hai-mantic</i> paddy continues. Condition of standing crops is hopeful. Fodder and water are sufficient. Burma rice is not available.
21	DACCA ...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$	Prospects of standing crops are good. Harvesting of winter paddy and sowing of <i>rabi</i> crops are proceeding. Fodder and water are sufficient.
	Manikganj ...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	
	Narayanganj	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	
	Munshiganj (a)	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6 \end{array} \right.$	
22	MYMENSINGH	Nil	$\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \end{array} \right.$	Harvesting of winter paddy is in progress. Sowing of <i>rabi</i> crops is nearly finished. Prospects are good. Cattle-disease is reported from police-station Muktagacha. Fodder and water are sufficient.
	Jamalpur ...	Nil	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	
	Tangail ...	Nil	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	
	Netrakona ...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	
	Kishorganj...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \end{array} \right.$	

(n) Not reported.

† New.

\* Burma rice.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	The effects of weather are favourable to crops. <i>Aman</i> paddy has been damaged by <i>ufra</i> in Kotwalipara thana. Harvesting of <i>aman</i> paddy continues. Prospects are fair. Fodder is sufficient.
	Goalundo ...	Nil	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 6 \end{array} \right.$	
	Madaripur ...	Nil	$\left\{ \begin{array}{l} 5 \\ 5\frac{10}{10} \end{array} \right.$	$\left\{ \begin{array}{l} 4 \\ 5\frac{11}{11} \end{array} \right.$	
	Gopalganj(a)	Nil	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 5 \\ 6 \end{array} \right.$	
24	BAKARGANJ (BARISAL).	Nil	$\left\{ \begin{array}{l} 4 \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 6 \end{array} \right.$	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 6 \end{array} \right.$	
	Patuakhali ...	Nil	$\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 4 \\ 5\frac{1}{2} \\ 6 \end{array} \right.$	
	Dakshin Shabazpur (Bhola).	Nil	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 3\frac{1}{2} \\ 4\frac{1}{2} \end{array} \right.$	
25	CHITTAGONG	Nil	$\left\{ \begin{array}{l} 6\frac{1}{2} \dagger \\ 7\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	Cultivation of <i>rabi</i> crops is in progress. Prospects of standing crops are fair. Harvesting of <i>aman</i> paddy is in progress. <i>Panga</i> sult is selling at 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	0.28	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6 \end{array} \right.$	
26	TIPPERA (COMILLA).	Nil	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 5\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	Prospects of standing crops are hopeful. Harvesting of <i>aman</i> paddy is going on; prospects are good. Sowing of <i>rabi</i> crops is going on in full swing; prospects are fair.
	Brahmanbaria.	Nil	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 7\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	
	Chandpur ...	Nil	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 6\frac{1}{2} \\ 6\frac{1}{2} \end{array} \right.$	
27	NOAKHALI ...	Nil	5 $\frac{1}{2}$	5	Weather fair. Prospects of standing crops have somewhat improved. Fodder is sufficient.
	Feni ...	Nil	(n)	6 $\frac{1}{2}$	
28	CHITTAGONG HILL TRACTS.	Nil	$\left\{ \begin{array}{l} 5 \\ 6 \dagger \end{array} \right.$	$\left\{ \begin{array}{l} 4\frac{1}{2} \\ 5\frac{1}{2} \dagger \\ 4\frac{1}{2} \end{array} \right.$	Prospects of <i>aman</i> paddy are fair. Harvesting of cotton crop and cultivation for <i>rabi</i> crops continue. Fodder is sufficient.

(a) The rainfall at Hatidaspur, which is very near to Gopalganj, is shown here.

\* Burma rice.

† Local rice.

‡ Aw rice.

(n) Not reported.

Dacca, the 1st December 1919.

R. S. FINLOW,  
Director of Agriculture, Bengal.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of November 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 10 0	3 4 0	3 0 0	3 8 0	4 0 0	...
Chella Hat ...	...	...	...	...	...	...	...
Bardwan ...	4 14 0	4 14 0	2 12 0	2 2 0	3 12 0	3 14 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 10 0	4 12 0	3 0 0	2 4 0	2 11 0	2 10 0	...
Chittagong ...	(c)	(c)	(c)	(c)	(c)	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 14 0	5 14 0	3 0 0	2 8 0	3 6 0	4 0 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 0 0	5 4 0	3 0 0	2 12 0	3 4 0	3 8 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	6 0 0	5 12 0	3 0 0	3 6 0	3 12 0	3 6 0	...

\* Figures not available.

(c) No sale.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 12 0	2 8 0	3 4 0	3 12 0	...
Chella Hat ...	...	...	...	...	...	...	...
Bardwan ...	4 12 0	4 12 0	2 6 0	2 0 0	3 4 0	3 10 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	4 8 0	4 10 0	2 12 0	1 14 0	2 10 0	2 8 0	...
Chittagong ...	(c)	(c)	2 8 0	(c)	(c)	(c)	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 8 0	5 8 0	2 12 0	2 4 0	3 0 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 3 0	4 8 0	3 12 0	2 4 0	2 11 0	3 2 0	3 5 3
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	5 0 0	2 8 0	2 6 0	3 0 0	2 4 0	3 0 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of November 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	7 8 0	7 0 0	7 14 0	8 4 0	7 12 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 12 0	8 10 0	8 14 0	6 0 0	9 4 0	8 0 0	8 2 6
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0	10 0 0	6 8 0	8 0 0	6 0 0	7 8 0	5 8 0
Ohittagong ...	12 0 0	13 0 0	8 0 0	7 0 0	9 0 0	10 0 0	9 0 0
Chandpur ...	...	...	...	...	...	...	...
Daoca ...	10 0 0	10 0 0	6 2 0	8 8 0	6 4 0	7 4 0	6 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 0 0	9 0 0	6 12 0	6 0 0	8 0 0	8 8 0	8 0 0
Sirajganj ...	...	...	...	...	...	...	...
Haugpur ...	12 0 0	12 8 0	7 0 0	7 0 0	7 4 0	7 8 0	7 8 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	8 12 0	8 8 0	8 3 0	7 8 0	6 4 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 10 0	7 10 0	4 12 0	3 12 0	4 8 0	5 4 0	5 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 12 0	8 12 0	5 0 0	4 2 0	5 4 0	5 8 0	5 0 0
Ohittagong ...	6 8 0	9 0 0	5 0 0	4 0 0	5 4 0	5 4 0	5 4 0
Chandpur ...	...	...	...	...	...	...	...
Daoca ...	8 14 0	9 8 0	5 12 0	4 12 0	6 0 0	6 12 0	5 10 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 0 0	7 14 0	5 0 0	4 8 0	5 7 0	6 2 0	5 8 0
Sirajganj ...	...	...	...	...	...	...	...
Haugpur ...	10 12 0	10 12 0	5 8 0	5 0 0	5 12 0	7 0 0	6 0 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of November 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	5 0 0	5 0 0	7 4 0	5 0 0	4 5 0	5 0 0	5 10 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 12 0	7 12 0	(a)	5 0 0	4 10 0	5 10 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	5 5 0	5 5 0	5 5 0	5 12 0	5 8 0	6 0 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	5 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	6 11 0	6 12 0	...	4 0 0	3 13 0	4 12 0	3 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	7 1 6	5 0 0	5 12 0	4 12 0	5 8 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	5 0 0	5 5 0	5 12 0	5 8 0	5 6 0	5 14 0	...
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	5 0 0	5 0 0	5 0 0	4 12 0	5 8 0	5 8 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	5 5 0 to 10 8 0	10 0 0 to 11 0 0	5 5 0 to 11 0 0	5 12 0	4 8 0	4 8 0	...
Chittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	7 8 0	7 0 0	7 8 0	6 8 0	...

\* Figure not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of November 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	3 8 0	3 10 0	3 14 0	4 12 0
Chota Hât ...	...	...	...	...	...	...	...
Burdwan ...	6 12 0	6 12 0	5 8 0	5 8 0	3 14 0	4 8 0	4 11 3
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0	8 0 0	5 12 0	3 14 0	3 14 0	4 10 0	...
Chittagong ...	to 8 4 0	to 8 4 0	to 7 0 0	to 4 4 0	to 4 2 0	5 8 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	7 9 0	10 0 0	7 0 0	4 12 0	7 10 0	7 0 0	...

Marts.	ANHAN DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	6 12 0	5 8 0	5 4 0	6 8 0	5 14 0
Chota Hât ...	...	...	...	...	...	...	...
Burdwan ...	9 12 0	9 12 0	7 4 0	4 10 0	5 8 0	6 0 0	6 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 0 0	11 0 0	8 8 0	5 0 0	5 4 0	7 8 0	...
Chittagong ...	to 12 0 0	to 12 0 0	7 12 0	to 5 8 0	to 5 8 0	7 0 0	7 8 0
Chandpur ...	11 8 0	12 8 0	...	7 0 0	7 0 0	...	...
Dacca ...	10 0 0	10 0 0	7 8 0	5 0 0	5 0 0	7 0 0	6 12 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	12 0 0	12 0 0	8 10 0	5 0 0	5 12 0	8 10 0	6 9 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	7 0 0	5 0 0	7 8 0	6 12 0	6 4 0

(a) Not available.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of November 1919.**

Marts.	LINSBED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	57	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	7 0 0	12 0 0	11 0 0	8 0 0	9 0 0	9 0 0	8 0 0	25 0 0	25 0 0	33 0 0
Cuttack	11 0 0	11 0 0	(a).....	12 0 0	12 0 0	10 0 0	8 0 0	8 0 0	8 0 0	(a).....	(a).....	(a).....
Durdwan	to 12 0 0	to 12 0 0	(a).....	to 14 0 0	to 14 0 0		to 8 0 0	8 0 0	8 0 0	(a).....	(a).....	(a).....
Kalra												
Raiganj												
Midnapore	7 0 0	7 0 0	8 0 0	14 4 0	14 4 0	10 8 0	11 0 0	11 0 0	8 0 0	40 0 0	40 0 0	70 0 0
Chittagong	15 0 0	15 0 0	10 0 0	13 0 0	14 0 0	9 0 0	12 0 0	13 0 0	8 0 0	(b).....	(b).....	(b).....
Chandpur												
Dacca	17 0 0	15 0 0	6 0 0	12 0 0	13 0 0	9 0 0	12 0 0	18 0 0	10 0 0			
Maryanganj												
Mymensingh												
Nadarpur												
Pabna	15 0 0	(a).....	8 0 0	13 5 0	13 5 0	9 8 0	10 10 0	10 10 0	8 8 0			
Raiganj												
Rangpur	(a).....	(a).....		14 0 0	14 0 0	7 8 0	13 0 0	13 0 0	8 0 0			

Marts.	JUTE.			GHEK.			HIDMA (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	12 0 0	78 0 0	78 0 0	70 0 0	450 0 0	450 0 0	450 0 0
Cuttack									
Durdwan	(a).....	(a).....	(a).....	76 0 0	74 0 0	65 0 0	(a).....	(a).....	40 0 0
Kalra									
Raiganj									
Midnapore	8 0 0	6 0 0	8 0 0	80 0 0	80 0 0	75 0 0	425 0 0	Cleaned pieces per 100. 400 0 0	225 0 0
Chittagong				80 0 0	85 0 0	75 0 0	400 0 0	Uncleaned pieces per 100. 375 0 0	220 0 0
Chandpur	3 8 0	3 0 0	8 8 0						
Dacca	to 12 0 0	to 12 0 0	to 10 0 0	80 0 0	78 0 0	65 0 0			
Maryanganj	5 0 0	5 0 0	9 12 0						
Mymensingh	to 8 0 0	to 11 0 0	to 12 0 0						
Nadarpur	to 12 0 0	to 12 0 0	to 12 0 0						
Pabna	to 12 4 0	to 12 0 0	to 11 8 0	78 0 0	80 0 0	80 0 0			
Raiganj	4 8 0	5 0 0	8 0 0						
Rangpur	to 7 0 0	to 8 0 0	to 8 0 0	75 0 0	75 0 0	65 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0

(a) Not available.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of November 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	9 0 0	35 0 0	3 6 0	3 6 0	3 12 0	3 13 0(a)	3 13 0(a)	3 2 0
Chota Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	16 0 0	14 0 0	22 0 0 to 35 0 0	3 8 0	3 8 0	3 8 0	3 2 0(b)	3 2 0(b)	4 1 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	3 0 0 to 16 0 0	3 0 0 to 12 0 0	3 0 0 to 29 0 0	3 10 0	3 10 0	3 13 0	4 2 0(d)	4 2 0(d)	4 3 0
Chittagong	20 0 0	18 0 0	30 0 0	4 10 0	4 4 0	3 8 0	3 0 0(c)	3 0 0(c)	2 0 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	4 8 0	4 8 0	4 4 0	4 1 0(d)	4 2 0(d)	4 8 0
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	16 0 0 to 18 0 0	16 0 0 to 18 0 0	21 0 0 to 26 10 0	4 0 0	4 0 0	4 4 0	4 3 0(d)	4 3 0(d)	3 14 0
Birajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 8 0	4 4 0(A)	4 4 0(A)	4 10 0

(a) Monkey brand. | (b) Rising Sun. | (c) Mosque. | (d) Elephant. | (A) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	35 0 0	33 0 0	25 0 0	0 8 0	0 8 0	1 0 0	.....	.....	.....
Chota Hat	.....	.....	.....	.....	.....	.....	0 3 0	0 5 0	0 5 0
Burdwan	34 0 0	33 0 0	25 0 0	0 8 0	0 8 0	0 9 0	0 7 0	0 7 0	0 8 0
Kalna	.....	.....	.....	.....	.....	.....	0 9 0	0 9 0	0 8 0
Baniganj	.....	.....	.....	.....	.....	.....	0 1 0	0 1 0	0 3 0
Midnapore	36 0 0 to 40 0 0	36 0 0 to 38 0 0	26 0 0 to 30 0 0	0 7 0	0 7 0	0 7 0	.....	.....	.....
Chittagong	40 0 0	42 0 0	38 0 0	.....	.....	.....	.....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	39 0 0	37 0 0	30 0 0	.....	.....	.....	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	41 0 0	37 0 0	29 0 0	.....	.....	.....	.....	.....	.....
Birajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	40 0 0	41 0 0	30 0 0	.....	.....	.....	.....	.....	.....

DACCA.

The 26th November 1919.

J. C. ROY.

for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of November 1919.**

Division.	Number.	DISTRICTS AND MANTE.	QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL. ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR THUN. CADJAN P'EA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.
			Present return.	Next preceding return.	Corresponding of last year.	Present return.	Next preceding return.	Corresponding of last year.									
PRINCIPAL.		24-PARGANAS.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.	S. Oh.
	1	Obeth Hat ...	4 9	4 0	7 2	5 0	4 8	8 0	4 9	4 0	4 9	4 0	4 0	5 6	10 10	10 10	8 2
	2	Magra Hat ...	5 1	5 1	7 3	5 5	5 5	8 0	(a)	(a)	(a)	3 6	3 6	5 0	10 12	10 12	10 4
	3	Calcutta-Bellaghata	4 12	4 12	6 10	6 6	6 6	8 0	4 7	4 7	4 7	4 0	4 0	5 14	10 0	10 0	10 0
		NADIA.															
	4	Gouri ...	5 0	4 15	6 7	5 5	5 5	7 3	3 4	3 4	3 3	3 4	3 4	4 3	13 0	10 10	10 10
	5	Ranaghat ...	4 8	4 12	7 0	5 3	6 0	7 4	3 2	3 2	5 4	3 3	3 3	5 4	10 2	10 10	9 0
		MURSHIDABAD.															
	6	Derhampur ...	4 8	4 3	8 0	4 12	4 12	3 4	4 0	4 0	3 0	4 0	4 0	6 0	13 0	13 0	9 0
	7	Kandi ...	5 0	5 0	6 3	5 6	5 0	9 0	3 3	3 4	...	4 0	5 12	6 3	10 8	10 8	10 0
	8	Jangipur ...	5 5	6 0	8 0	6 0	6 3	3 12	3 3	3 3	...	3 3	3 3	7 0	13 0	13 0	8 3
		JESHERA.															
	9	Sadar ...	5 3	5 6	7 3	5 12	5 12	6 3	3 4	2 3	4 3	3 4	3 0	4 3	11 4	11 4	10 0
	10	Bangson ...	4 0	4 0	6 10	5 11	5 11	7 0	2 11	2 11	4 0	3 3	3 3	4 15	11 4	11 4	10 3
BURDWAN.		KHULNA.															
	11	Sadar ...	4 14	5 4	8 0	4 14	5 4	9 0	3 3	3 3	3 0	3 3	3 3	4 3	9 0	9 0	9 0
	12	Bagerhat ...	5 4	4 3	7 0	6 10	5 5	9 0	5 0	5 0	5 4	3 10	3 10	5 4	9 0	9 0	9 0
		BURDWAN.															
	13	Sadar ...	4 10	4 10	5 0	5 0	4 14	9 9	4 3	4 3	4 12	3 12	3 12	5 4	10 3	10 3	10 3
	14	Kalma ...	4 3	4 5	6 6	5 2	5 0	6 0	3 9	3 10	4 0	3 5	3 5	5 5	11 0	11 0	9 0
		BIRBHUM.															
	15	Bari ...	5 4	5 0	6 12	5 3	5 3	7 3	4 3	4 3	4 0	3 4	3 4	5 4	11 0	11 0	9 0
	16	Rampur Hat ...	5 0	5 0	7 0	6 0	6 0	7 3	6 0	5 0	4 0	3 3	3 3	4 3	11 0	11 0	11 0
		BANKURA.															
	17	Sadar ...	5 3	4 3	7 3	5 12	5 0	8 0	5 3	5 3	3 12	4 0	3 4	5 0	11 0	10 0	10 3
	18	Vishnupur ...	5 0	4 5	7 0	5 3	5 0	8 0	4 0	4 0	5 0	3 3	3 12	5 0	10 3	10 0	9 0
		MIDNAPORE.															
	19	Sadar ...	4 11	4 11	5 1	5 0	4 12	8 6	3 4	3 4	4 0	3 4	3 4	4 0	10 0	10 0	9 0
	20	Contal ...	4 12	5 0	7 3	5 0	5 4	8 0	3 0	3 0	7 3	3 0	3 0	7 0	11 3	9 0	10 0
RAJSHAH.		HOOGHLY.															
	21	Sadar ...	4 4	4 3	6 3	5 0	5 0	7 3	4 0	4 0	4 0	4 0	4 0	5 0	10 3	10 3	10 0
	22	Arambagh ...	5 12	5 3	7 10	6 0	5 12	8 0	3 4	3 4	4 0	3 3	3 4	5 0	10 10	10 10	9 0
		HOWRAH.															
	23	Sadar ...	5 4	4 12	6 4	5 0	5 3	6 3	4 3	4 0	4 0	4 0	4 0	4 3	11	11 0	10 0
	24	Uinbaria ...	4 3	4 4	6 12	5 0	4 3	7 12	4 0	4 0	3 12	3 10	3 10	4 11	11	11 3	10 0
		RAJSHAH.															
	25	Rampur-Boalia ...	4 10	4 10	7 14	4 12	4 12	8 10	4 0	4 0	4 0	4 0	4 0	5 4	9 12	9 12	8 0
	26	Nator ...	4 14	4 14	8 0	5 4	5 4	9 0	4 0	4 0	5 3	4 0	4 0	7 14	9 3	9 3	8 0
	27	Dinajpur-Railway Besar Hat.	4 12	4 3	8 6	5 2	4 12	9 0	3 12	3 12	4 12	3 3	3 3	4 12	10 0	10 0	8 0
	28	Jalpaiguri-Sadar ...	4 4	3 4	5 3	5 0	4 3	10 0	4 0	4 0	5 3	3 12	3 3	5 0	9 3	9 0	8 0

\* Karkatch.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of November 1919—*concl.***

QUANTITY PER RUPEE IN SHEER OF EIGHTY TOLAS.

DIVISION.

RAJBHARI.

DACCA.

CHITTAGONG.

COMMON RICE.

KALAI DAL (*Phaseolus radiatus*).

ARHAR (DAL) OR TURH. CADJAN PEA (*Cajanus indicus*).

SALT.

DISTRICTS AND MARKS.

Average.

Cheapest.

Present return.

Next preceding return.

Corresponding return of last year.

Present return.

Next preceding return.

Corresponding return of last year.

Present return.

Next preceding return.

Corresponding return of last year.

Present return.

Next preceding return.

Corresponding return of last year.

Present return.

Next preceding return.

Corresponding return of last year.

		DARJEELING.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
29	Sadar	...	3 12	3 0	...	4 3	4 0	...	2 12	2 12	...	2 12	2 12	...	3 0	3 0	...
30	Shilguri	...	4 3	4 0	3 0	5 3	5 0	3 0	3 3	3 3	5 0	3 3	3 3	5 3	3 0	3 0	3 0
		RAJPOUR.															
31	Sadar	...	3 6	3 10	7 0	4 4	4 0	3 0	3 12	3 12	4 3	3 0	3 0	5 0	3 2	3 0	3 0
32	Nilphamari	...	4 7	4 5	3 0	4 11	4 7	3 3	4 0	3 3	5 3	3 3	3 3	5 3	3 12	10 0	3 0
33	Bogra—Sadar	...	3 0	4 6	5 3	3 14	4 15	3 0	3 3	3 3	3 0	3 3	3 3	4 5	3 12	3 12	3 3
		PAUNA.															
34	Sadar	...	5 4	4 14	3 0	5 3	5 3	3 3	3 14	3 4	3 12	3 0	3 0	5 0	11 3	11 3	3 0
35	Shirajganj	...	4 4	3 15	7 0	4 12	4 4	3 0	4 0	4 0	3 0	3 3	3 3	3 0	3 0	3 0	3 0
		MALDA.															
36	Sadar	...	4 3	4 3	3 3	5 0	5 4	3 12	3 0	4 0	5 0	4 0	4 0	5 0	11 3	12 0	3 0
37	Balla—Nawabganj	...	4 12	4 12	3 3	5 0	5 0	3 0	5 0	4 3	5 0	3 3	3 3	7 0	11 3	11 3	3 0
		DACCA.															
38	Sadar	...	4 3	4 4	7 0	5 0	5 3	3 0	4 0	4 0	4 0	4 0	4 0	5 4	3 0	3 0	3 3
39	Munshir Hat	...	5 4	5 0	3 0	5 4	5 0	3 0	(n)	(n)	(n)	4 0	(n)	(n)	3 0	3 0	3 0
		MYMENSINGH.															
40	Nasirabad	...	3 3	3 4	3 10	4 0	4 0	3 14	4 0	4 0	3 0	4 0	4 0	5 4	3 0	3 0	3 0
41	Netrokona	...	4 10	3 10	3 0	5 4	5 0	3 3	5 3	5 0	3 3	3 3	3 3	5 3	10 0	10 0	3 0
		FARIDPUR.															
42	Sadar	...	4 3	4 3	3 0	4 12	4 12	3 3	4 4	4 0	4 3	4 3	4 0	4 3	9 10	9 10	3 0
43	Rajbari	...	5 1	4 6	3 0	5 6	4 12	3 10	4 3	4 0	4 12	3 3	3 3	4 6	10 0	10 0	3 0
		BAKARGANJ.															
44	Barisal	...	4 0	3 0	7 0	4 4	4 3	3 0	5 2	5 4	5 12	3 3	3 4	5 0	3 4	3 4	10 3
45	Pirojpur	...	3 3	3 14	7 12	3 12	3 15	7 12	4 3	4 0	...	(a)	(a)	4 12	3 0	3 0	3 3
		TIPPERA.															
46	Oomilla	...	3 12	3 12	7 12	3 0	3 4	3 0	4 3	4 3	3 0	3 0	3 0	4 10	3 0	3 0	3 3
47	Obandpur	...	4 3	3 14	7 4	3 3	3 4	3 3	3 10	3 12	5 2	3 3	3 3	7 2	3 3	3 3	3 1
		NOAKHALI.															
48	Kaltara Hat	...	5 3	4 12	3 0	5 3	5 0	3 0	5 3	4 4	4 0	3 4	3 3	5 3	3 0	3 0	3 0
49	Feni Hat	...	4 3	4 3	3 12	3 0	3 0	11 10	5 0	5 3	3 0	(n)	(n)	(n)	3 0	3 0	3 3
		CHITTAGONG.															
50	Sadar	...	3 0	3 0	3 0	7 0	6 3	3 3	4 0	3 12	4 0	3 12	3 4	5 0	3 0	3 3	10 0
51	Cox's Bazar	...	3 0	3 12	3 0	(n)	(n)	3 0	4 0	4 0	4 3	3 4	3 4	4 3	3 0	3 0	3 0
52	Chittagong Hill Tracts—Rangamati.	...	3 0	3 3	3 0	3 3	7 0	3 0	4 0	4 0	3 4	3 0	3 0	4 3	3 0	3 0	3 0

\* Karkatch.

(a) Not available.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA ;  
The 26th November 1919.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 29th November 1919.**

Name of article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	8 8 0	9 8 0	0 4 0	0 4 6
" medium ...	.....	...	0 4 3	0 5 0
Patnai, coarse ...	8 8 0	8 14 0	0 3 3	0 4 6
" medium ...	8 12 0	9 4 0	0 3 6	0 5 0
Nagra, coarse ...	8 10 0	9 0 0	0 3 3	0 4 6
" medium ...	8 13 0	9 6 0	0 3 6	0 5 0
Dudhkalma ...	9 0 0	9 4 0	0 3 9	.....
Rangoon Boiled ...	.....	.....	0 3 3	0 3 6
Kajla ...	6 4 0	6 10 0	0 3 0	.....
Wheat, Dudhia ...	7 12 0	8 0 0	.....	.....
" Gangajali ...	.....	.....	.....	.....
" Jamali ...	7 0 0	7 4 0	.....	.....
Gram, Patnai (whole) ...	7 8 0	8 4 0	0 2 6	0 3 3
" dal ...	9 3 0	9 8 0	0 4 0	.....
Mung " (Hari) ...	11 8 0	12 8 0	0 8 0	.....
" " (Krishna) ...	10 8 0	11 6 0	0 5 0	0 6 0
Arhar " ...	8 8 0	11 8 0	0 3 6	0 5 0
Masur " (split) ...	7 14 0	8 10 0	0 3 3	0 4 6
" " (Khanri) ...	9 12 0	11 0 0	0 4 6	0 5 0
Kalai " ...	8 0 0	9 8 0	0 3 6	0 4 0
Salt ...	.....	.....	0 1 9	.....
Sugar (Brown Java) ...	22 4 0	.....	0 9 0	0 12 0
Gur, Bheli ...	.....	.....	0 4 0	.....
" Bhursut ...	11 8 0	12 0 0	0 6 0	0 7 0
Milk ...	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil ...	37 0 0	38 8 0	0 15 0	1 2 0
Flour (country) ...	9 6 0	10 6 0	0 4 6	0 5 0
Atta, No. 3 ...	7 4 0	} .....	0 3 6	0 5 0
" " 2½ ...	7 8 0			
" " B ...	10 4 0			
Suji ...	9 14 0	10 8 0	0 4 6	0 5 6
Ghee (Bhadwa, Matki, etc.) ...	98 0 0	98 8 0	} 2 6 0	2 8 0
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.)	93 0 0	94 0 0		
" (Lalli, Etwa, Sagur, etc.)...	87 0 0	88 0 0		
Maize ...	4 12 0	5 8 0	.....	.....
Potato ...	5 4 0	8 0 0	0 3 0	0 4 0
Patal ...	11 0 0	11 8 0	0 4 0	0 5 0
Brinjal ...	2 0 0	2 6 0	0 1 6	0 2 6
Onion ...	3 12 0	4 8 0	0 1 0	0 2 0
Fish, Rahu ...	20 0 0	25 0 0	0 10 0	0 12 0
Mutton (2nd class) ...	.....	.....	0 5 0	.....
Beef (2nd and 3rd classes) ...	.....	.....	0 3 0	0 3 6

N.B.—This is an abstract of prices of the following markets :—

*Wholesale.*—Chetla Hat, Ramkrishnapur Hat, Scaldah Fish and Milk Markets, Posta Bazar.  
*Retail.*—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 1st December 1919.



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, i.e., by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the six months, April to September, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta\* by rail, river, canal, road, and sea (coastwise) during the six months, April to September, 1919, amounted to 12,009,000 maunds, as against 6,410,000 maunds in the corresponding period of the preceding year—an increase of 87 per cent. There was an increase (15 per cent) in the imports of coal and coke (47,191,000 maunds as against 41,057,000 maunds last year). The imports by rail, river, road, and sea (coastwise) of Indian cotton piecegoods showed an increase of 78 per cent, the total value amounting to Rs. 4,81,49,000 as against Rs. 2,70,97,000 in 1918. The quantity of indigo imported during the six months, April to September, 1919, decreased from 4,579 maunds to 2,179 maunds. The imports of raw jute amounted to 1,798,000 bales as against 2,357,000 bales—a decrease of 24 per cent. The importations of gunny bags also showed a decrease of 30 per cent (169 million bags as against 243 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 33 per cent, from 3,427,000 maunds to 4,557,000 maunds. The imports of sugar decreased by 19 per cent, from 349,000 maunds to 282,000 maunds, and those of tea by 17 per cent, from 1,564,000 maunds to 1,300,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta by all routes during the six months, April to September, 1919, decreased by 5 per cent (Rs. 11,87,05,000 as against Rs. 12,50,51,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) decreased from 686 million bags to 537 million bags, and the shipments of gunny bags to other Indian ports decreased from 21 millions to 19 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) increased from 2,473,000 maunds to 2,817,000 maunds, or by 14 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.

† One maund of paddy is equivalent to 25 seers of rice.



TABLE 1

*Trade of Calcutta in certain selected articles in the six months, April to September, 1919, compared with the corresponding months of 1918.*

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COAST-WISE)	
	April to September, 1919	April to September, 1918	April to September, 1919	April to September, 1918
<b>Food-grains—</b>				
Rice ... .. Mds	10,722,196	5,486,539	1,907,182	2,422,211
Paddy ... .. "	2,088,910	1,677,490	114,206	2,261
Total (in rice) (b) ... .. "	12,811,106	7,164,029	2,021,388	2,424,472
Wheat ... .. "	1,674,313	2,360,776	87,426	486,619
Wheat flour ... .. "	71,348	40,259	198,104	216,277
Gram and pulses ... .. "	2,642,701	2,961,397	829,012	762,263
Other food-grains ... .. "	454,688	215,383	30,852	20,669
Total food-grains ... .. "	15,582,856	13,082,845	2,089,106	3,919,417
Coal and Coke ... .. "	67,191,049	41,037,436	7,222,716	1,961,663
Cotton, raw ... .. Bales	86,679	56,757	47,527	12,230
.. twist and yarn, Indian ... .. Mds	142,196	174,263	109,170	50,003
.. piecegoods, Indian ... .. Rs	4,81,49,365	3,70,97,261	6,41,029	6,96,466
Indigo ... .. Mds	2,179	4,579	8,691	20,521
Jute, raw ... .. Bales	1,798,397	2,256,972	999,296	1,104,789
.. gunny bags ... .. No	168,757,078	242,518,244	497,035,822	688,011,277
Lac ... .. Mds	208,988	224,616	282,520	204,761
Oilseeds—Linseed ... .. "	2,194,606	1,706,007	2,177,176	890,263
.. Rape and mustard ... .. "	1,262,484	1,720,862	50,496	195,793
Silk, raw ... .. "	1,423	1,190	2,417	1,765
Sugar—Refined ... .. "	23,227	96,923	118,144	10,956
.. Unrefined ... .. "	246,126	262,278	2,227	124
Tea (Indian) ... .. "	1,200,067	1,263,866	1,272,220	1,246,724
Tobacco—unmanufactured ... .. "	607,997	277,267	140,761	109,277
.. manufactured ... .. "	27,046	22,209	4,284	2,728
	IMPORTS		EXPORTS	
	BY SEA (FOREIGN AND COAST-WISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April to September, 1919	April to September, 1918	April to September, 1919	April to September, 1918
Cotton twist and yarn—foreign ... .. Mds	21,723	22,415	91,247	146,979
.. .. —Indian ... .. "	14,944	14,262	245,766	202,942
.. piecegoods—foreign ... .. Rs	6,62,61,404	11,07,22,776	11,67,08,036	12,60,80,487
.. .. —Indian ... .. "	26,22,228	28,92,069	2,70,11,878	1,10,88,260
Kerosene oil (c) ... .. Mds	2,804,078	2,661,459	2,917,006	2,472,012
Salt ... .. "	4,226,044	4,242,180	4,444,065	2,964,031
Gunny bags ... .. No	.....	.....	58,988,205	62,124,296

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 25 seers of rice.

(c) Including figures of Budge-Budge trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River.

Whence imported	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b) (c)
	Rice and paddy			Wheat	Wheat flour	Gram and pulses	Other food-grains	Total				
	Rice	Paddy (a)	Total (in rice)									
BENGAL.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.
Burdwan	122,407	422,227	226,227	.....	24	4,224	176	221,421	19,261,501	9	9	4,224
Birbhum	120,034	4,878	123,062	1,926	42	261	.....	123,212	.....	4	102	1,220
Bankura	3,561	51,110	22,502	2	24	.....	.....	26,541	.....	5	166	8,007
Midnapur	202,497	60,078	222,546	.....	51	11,568	2	240,187	428	120	1,210	1,220,124
Hooghly	624,141	222,116	201,714	1,116	227	22,715	2,222	222,549	24,222	14	12,212	10,222,212
24 Parganas	1,122,227	222,222	1,422,222	422	22	11,222	2,222	1,422,212	24,222	777	12,222	5,122,222
Nadia	54,222	62,222	22,222	24,212	4,222	222,222	22,212	424,222	.....	211	20	42,422
Murshidabad	22,222	222	24,210	22,221	220	121,222	22,222	212,222	20	24	2	2,222
Jessore	122,422	21,222	122,512	227	62	122,124	1,212	222,222	.....	1,242	9	1,222
Khulna	122,222	222,222	222,222	222	.....	22,242	212	422,222	.....	224	2	4,222
Rajshahi	2,124	122	2,222	12,222	222	22,222	.....	22,242	.....	16	.....	4,222
Dinajpur	22,222	22,212	42,222	.....	.....	2,222	227	22,221	.....	12	.....	122
Jaipalguri	412	1,222	1,221	.....	.....	.....	.....	1,221	.....	2	2	222
Darjeeling	422	1,222	1,214	.....	.....	12	20	1,222	.....	.....	.....	122
Bangpur	6,122	4,222	2,212	2,222	2	2,422	1,222	24,222	.....	122	2	1,222
Bogra	2,422	47,221	22,122	22	.....	4,222	2,422	42,222	.....	20	.....	.....
Pabna	2,712	.....	2,712	22,212	1,222	122,222	222	122,222	.....	2	42	1,222
Malda	1,222	.....	1,222	12,422	1,122	14,222	2,222	41,171	.....	.....	21	.....
Osesh Behar	422	.....	422	222	122	222	.....	1,222	.....	.....	.....	.....
Dacca	22,222	222	22,222	1,242	122	22,224	2,242	22,222	.....	10,222	127	4,242
Mymensingh	274	.....	274	212	.....	2,222	12,244	21,172	.....	422	21	2,222
Faridpur	12,222	2,212	12,222	12,222	227	122,224	2,222	142,224	.....	227	22	.....
Bakarganj	474,222	1,122	472,222	2	.....	2,222	.....	472,222	.....	11	42	1,222
Tippera (including Hill Tippera)	2,222	222	2,224	.....	.....	.....	222	4,422	.....	2	.....	.....
Noakhali	4	.....	4	.....	.....	222	.....	222	.....	1	20	1,222
Chittagong	22,222	.....	22,222	2	12	4,222	.....	122,121	.....	2,214	.....	.....
Chittagong Port	2,122	.....	2,122	.....	.....	.....	.....	2,122	.....	.....	.....	.....
Total of Bengal	3,221,222	1,222,222	5,121,222	142,172	12,212	1,222,222	122,222	6,422,242	12,422,222	12,222	22,222	12,222,222
OTHER PROVINCES AND PLACES												
Bihar and Orissa	2,242	2,222	11,222	142,121	2,222	224,222	142,222	1,222,122	27,222,224	222	212	1,222,224
Assam	121,242	122,222	222,222	4,222	222	2,212	222	222,242	2,222	2	22	21,242
U. P. of Agra and Oudh	2,722	.....	2,722	1,112,222	44,222	222,222	12,222	1,222,222	.....	4,242	1,222	2,222,222
Punjab	2,121	.....	2,121	142,422	4,222	22,222	1,121	212,211	.....	4,224	1,224	1,21,221
Sind and British Baluchistan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2,212
Central Provinces and Berar	424	2	422	.....	.....	222	122	1,222	.....	22,122	22,222	14,22,222
Bombay	.....	.....	.....	.....	2	1,222	2	1,221	2	2,422	42,222	2,21,22,222
Madras	.....	.....	.....	2,222	24	12,422	4	12,422	.....	12,221	12,222	22,24,222
Burma	6,222,422	2,222	6,222,222	222	.....	222,422	121,211	7,222,222	.....	1,112	.....	.....
Rajputana and Central India	222	.....	222	.....	21	.....	444	222	2	.....	.....	2,22,222
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	421	122	24,222
Mysore	.....	.....	.....	.....	1,222	.....	1,122	2,412	.....	.....	1,222	2,22,222
GRAND TOTAL	1919	10,722,122	2,222,212	12,222,212	1,222,212	2,222,212	424,222	12,222,222	47,121,242	22,222	122,222	4,22,12,222
	1918	5,422,222	1,472,422	2,422,222	2,222,222	2,222,222	222,222	12,222,222	41,222,222	22,222	122,121	2,22,22,222
	1917	4,222,222	222,222	2,222,222	2,222,222	2,222,222	222,222	12,222,222	41,222,222	22,222	222,222	2,22,22,222

(a) One maund of paddy is equivalent to 25 seers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



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## Canal, and Sea (Coastwise) in the six months, April to September, 1919.

Indigo	JUTE		Lac	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO		Whence imported
	Raw (d)	Gunny-bags (e)		Linseed	Rape and mustard		Refined	Un-refined		Unmanufactured	Manufactured	
Mds	Bales of 400 lbs 2,145	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL
.....	.....	33,533	33	789	5,333	.....	30	743	8	318	16	Bardwan
.....	.....	33,400	331	473	1,731	.....	30	5	1	.....	.....	Birbhum
.....	.....	13,899	42	.....	.....	.....	.....	.....	1	165	44	Bankura
.....	4,400	71,076	6	333	921	28	.....	41,130	.....	85	.....	Midnapur
4	36,310	53,199,691	.....	543	2,078	.....	30	56,503	.....	12,140	937	Hooghly
.....	73,427	114,071,133	.....	328	2,011	.....	12,150	24,631	34	6,768	3,363	24 Parganas
.....	37,779	50,380	.....	40,733	4,383	90	430	6,040	.....	8,751	3	Nadia
.....	10,804	10,861	1,377	33,347	3,099	1,049	3	130	.....	618	1,437	Murshidabad
.....	9,812	33,637	.....	1,427	2,340	.....	.....	66,427	.....	3,074	39	Jessore
.....	17,046	9,799	.....	2,868	1,610	.....	.....	680	.....	325	.....	Khulna
.....	35,113	1,968	.....	13,303	2,838	.....	.....	.....	.....	33	3	Rajshahi
.....	59,378	54,630	.....	.....	1,853	.....	.....	8	.....	334	.....	Dinajpur
.....	41,501	19,680	13	.....	4,109	.....	.....	.....	347,328	154,115	6	Jalpaiguri
.....	5,493	5,136	.....	418	333	.....	.....	1	197,191	6,461	21	Darjeeling
.....	343,773	47,365	.....	4,407	1,457	.....	7	.....	11,800	143,464	6	Itanagar
.....	74,179	14,945	.....	2,379	9,703	.....	.....	3	3	.....	.....	Bogra
.....	96,650	72,304	.....	15,863	9,967	.....	.....	.....	16	87	.....	Pabna
.....	7,381	615	16	2,164	1,014	140	.....	.....	.....	.....	.....	Malda
.....	38,994	984	.....	.....	434	.....	.....	2,101	.....	35,391	.....	Cooch Behar
.....	493,359	30,336	6	1,619	1,641	.....	328	81	1,886	16	8	Dacca
.....	273,067	4,797	.....	608	5,636	.....	13	.....	.....	117	7	Mymensingh
.....	111,550	39,407	.....	3,800	10,315	.....	36	300	.....	91	12	Faridpur
.....	4,433	78,075	.....	906	129	.....	.....	360	99	.....	.....	Bakerganj
.....	33,533	451	.....	301	774	.....	.....	.....	33	.....	.....	Tippera (including Hill Tippera)
.....	349	3,313	.....	1,417	.....	.....	.....	.....	.....	.....	.....	Noakhali
.....	43	4,674	.....	.....	482	.....	.....	.....	2,591	.....	.....	Chittagong
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chittagong Port
4	1,671,300	167,852,313	1,325	118,130	76,675	1,315	13,365	198,939	490,878	373,173	2,790	Total of Bengal
OTHER PROVINCES AND PLACES												
211	135,617	338,360	166,333	2,032,189	183,660	.....	2,641	17,763	2,668	161,497	17,919	Bihar and Orissa
.....	91,580	65,764	30,846	63,606	100,847	101	.....	21	603,217	138	57	Assam
1,464	.....	332,328	33,611	369,930	783,119	.....	2,630	7,324	917	397	553	U. P. of Agra and Oudh
.....	.....	60,969	.....	335	129,056	.....	.....	601	20	11	7	Punjab
.....	.....	1,148	.....	.....	9,194	.....	.....	.....	.....	6	12	Sind and British Baluchistan
.....	.....	110,085	11,181	70,324	3,411	5	.....	.....	33	110	1,450	Central Provinces and Berar
.....	.....	19,763	.....	.....	64,192	.....	1,635	8	49	5,988	77	Bombay
.....	.....	10,132	1,796	690	1,182	13	13,788	21,547	93	44,700	637	Madras
.....	.....	7,766	33,843	1	.....	.....	182	1,631	53	21,651	746	Burma
.....	.....	21,926	1,014	10,305	13,345	.....	.....	.....	32	.....	9	Rajputana and Central India
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nizam's Territory
.....	.....	.....	.....	.....	.....	.....	.....	647	18	1,130	.....	Mysore
2,179	1,798,397	168,757,073	308,968	3,194,500	1,362,484	1,433	23,337	248,156	1,300,087	607,997	27,046	1919
4,679	2,346,973	243,518,544	334,515	1,706,007	1,730,463	1,190	96,933	233,378	1,563,865	377,267	33,309	1918
1,743	1,491,653	211,707,763	292,670	786,672	1,754,340	2,003	146,363	199,419	1,386,980	425,072	32,793	1917
												GRAND TOTAL

(d) Excludes imports into the mills outside the Calcutta block, which are 1,399,294 bales, but includes imports into the Kidderpore Docks, namely, 37,706 bales.

(e) Including gunny cloth, 2 yards of cloth = 1 bag.

(f) Of this, 989,040 bales came by rail, 771,252 bales by river, 21,376 bales by road and 16,329 bales by sea.



TABLE III

**Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the six months, April to September, 1919.**

Routes	FOOD-GRAINS						Coal and coke	Cotton raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b)(c)	Indigo
	Rice	Paddy (a)	Wheat	Wheat flour	Gram and pulses	Other food-grains					
	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs	Mds
By rail	R. I. Railway...	346,106	519,985	863,805	30,207	1,149,339	121,863	33,775,143	2,782	16,56,013	1,498
	R. B. Railway (including B. C. Railway)	274,981	347,314	213,006	9,267	736,078	64,206	3,010,880	1,706	5,78,465	96
	A.-B. Railway...	1,066	301	.....	.....	891	.....	.....	30	3,315	...
	B.-N. Railway...	208,391	71,945	2	1,377	29,030	1,303	10,329,223	69,579	4,15,30,164	...
	B. & N.-W. Railway	428	.....	418,604	1	192,955	50,175	.....	418	5,918	581
	D.-S. Railway	.....	.....	.....	.....	.....	.....	.....	.....	1,078	...
	Kalkata-Falta Railway	105,365	56,739	.....	.....	.....	.....	.....	.....	.....	...
	Howrah-Amra and Howrah-Sankhal Light Railways	47,719	6,080	.....	24	10	.....	.....	.....	30,710	...
	Bengal ... ..	339,435	12,393	10,875	569	50,666	23,604	12,598	405	1,89,186	...
	Bihar and Orissa	46	2	25,850	9,398	39,830	8,364	34	.....	234	...
By river steamer	Assam ... ..	49,560	95,807	760	60	1,145	202	3,263	2	16,035	...
	U. P. of Agra and Oudh	.....	.....	28	14	1,690	25	4	.....	.....	...
By boat	.....	2,016,624	923,282	24,587	360	252,262	4,631	1,052	2,900	34,591	8,93,500
By road	.....	239,128	22,187	108	.....	1,376	1,605	71,769	394	6,221	6,20,639
By sea	.....	6,605,486	3,925	2,378	1	307,653	181,711	.....	8,885	.....	.....
Total	1919	10,722,198	2,038,910	1,674,213	71,269	2,843,701	484,688	47,191,049	86,679	127,331	4,56,18,927
	1918	5,486,539	1,477,490	3,360,778	40,329	2,951,397	245,385	41,057,458	66,767	160,101	2,82,40,282
	1917	4,784,932	820,343	5,782,221	104,685	2,984,588	371,077	41,954,818	86,022	239,367	2,12,38,507

Routes	JUTE		OILSEEDS			SILK, RAW	SUGAR		TOBACCO		
	Raw (d)	Gunny bags (e)	Lao	Linseed	Rape and mustard		Refined	Unrefined	Ton, Indian	Unmanufactured	Manufactured
	Bales of 400 lbs	No.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
By rail	R. I. Railway...	24,352	617,552	154,277	777,016	901,399	13	910	14,273	1,120	3,353
	R. B. Railway (including B. C. Railway)	950,179	472,443	16,414	114,605	97,332	789	7	41,372	301,765	491,772
	A.-B. Railway...	74	23,001	308	5,827	44	.....	1	160,268	.....	21
	B.-N. Railway	1,136	333,207	107,606	66,407	16,346	32	14,849	16,492	2,597	24,956
	B. and N.-W. Railway	11,279	19,516	.....	2,108,631	247,326	.....	2,133	11,310	57	25,825
	D. S. Railway	.....	.....	.....	.....	.....	.....	.....	119,397	.....	.....
	Kalkata-Falta Railway	.....	19,844	.....	.....	.....	.....	.....	.....	.....	.....
	Howrah-Amra and Howrah-Sankhal Light Railways	9,020	19,598	.....	32	.....	8	560	.....	11	7
	Bengal ... ..	592,410	74,947	56	7,982	11,551	538	627	3,842	16,387	403
	Bihar and Orissa	474	5,494	.....	236	5,670	132	132	.....	8,888	9,615
By river steamer	Assam ... ..	54,818	27,347	7,525	55,340	65,984	41	2	499,437	.....	33
	U. P. of Agra and Oudh	.....	328	.....	.....	227	634	.....	.....	107	150
By boat	.....	121,550	166,236,740	.....	8,344	16,791	.....	591	132,403	24	18,268
By road	.....	21,876	760,864	.....	80	.....	11,902	26,471	.....	5,663	4,192
By sea	.....	16,229	26,886	32,842	1	815	951	1,521	95	21,882	1,196
Total	1919	1,798,897	168,767,073	308,588	2,194,500	1,362,484	1,433	32,637	248,136	1,300,057	607,997
	1918	2,356,972	242,518,544	234,615	1,706,007	1,720,969	1,190	95,938	263,278	1,562,866	377,367
	1917	1,491,653	211,707,703	392,670	788,579	1,784,340	3,003	146,363	199,419	1,386,980	425,072

(a) One maund of paddy is equivalent to 25 seers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mills outside the Calcutta block, which are 1,289,294 bales, but includes imports into the Kidderpore Docks, namely, 37,704 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coastwise) in the six months, April to September, 1919.*

		COTTON TWIST AND YARN		COTTON PIECE GOODS		Kerosene oil	Salt
		Foreign	Indian	Foreign	Indian		
FOREIGN—		Mds	Mds	Rs	Rs	Mds	Mds
From United Kingdom ... ..		14,761	.....	7,29,30,883	.....	5	887,390
" Other countries ... ..		2,786	.....	1,09,92,632	.....	1,182,348	3,453,664
Total ...		18,507	.....	8,37,13,485	.....	1,182,353	4,336,044
COASTWISE—							
From British Ports in—							
Bihar and Orissa ... ..		14	.....	.....	.....	.....	.....
Bombay ... ..		1,446	14,696	4,44,385	26,09,136	.....	.....
Madras ... ..		972	146	6,000	8,382	.....	.....
Burma ... ..		814	122	21,97,664	1,14,870	1,691,726	.....
Total ..		2,346	14,964	2,647,949	26,32,388	1,691,726	.....
GRAND TOTAL ...							
1919 ...		21,753	14,964	8,63,61,404	26,32,388	2,804,076	4,336,044
1918 ...		32,415	14,282	11,07,53,775	26,02,069	2,581,459	4,945,190
1917 ...		24,337	1,119	11,35,31,088	87,523	2,440,758	3,667,767



TABLE V

**Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the six months, April to September, 1919.**

	FOOD-GRAINS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat Saur	Gram and pulses	Other food-grains	Total				
<b>Coastwise—</b>	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs
<b>To British Ports in—</b>												
Bengal ...	267	.....	267	.....	43	52	.....	262	272	11	396	4,730
Bihar and Orissa	20,046	.....	20,046	484	1,215	3,858	.....	25,615	2,014	.....	1,654	.....
Madras ...	662,646	114,206	685,022	8,669	824	478,617	66	1,423,799	126,462	.....	49	.....
Burma...	4,266	.....	4,266	26,523	161,623	119,255	16,780	241,447	1,156,917	162	82,305	7,74,490
<b>Total ...</b>	<b>888,238</b>	<b>114,206</b>	<b>909,614</b>	<b>48,686</b>	<b>162,515</b>	<b>601,882</b>	<b>16,826</b>	<b>1,790,123</b>	<b>1,295,695</b>	<b>173</b>	<b>84,506</b>	<b>7,79,229</b>
<b>Foreign—</b>												
<b>To United Kingdom</b>	8	.....	8	80	.....	2,919	.....	3,007	2,103	2,769	.....	.....
„ Other countries	1,018,888	1	1,018,889	8,069	29,589	224,511	14,027	1,296,975	5,954,920	44,595	24,664	61,793
<b>Total ...</b>	<b>1,018,896</b>	<b>1</b>	<b>1,018,897</b>	<b>9,039</b>	<b>29,589</b>	<b>227,430</b>	<b>14,027</b>	<b>1,299,982</b>	<b>5,957,023</b>	<b>47,364</b>	<b>24,664</b>	<b>61,793</b>
<b>1919 ...</b>	<b>1,007,123</b>	<b>114,206</b>	<b>1,075,511</b>	<b>57,425</b>	<b>192,104</b>	<b>829,012</b>	<b>26,853</b>	<b>3,089,106</b>	<b>7,252,718</b>	<b>47,537</b>	<b>109,170</b>	<b>8,41,022</b>
<b>GRAND TOTAL 1918 ...</b>	<b>2,423,211</b>	<b>2,261</b>	<b>2,424,699</b>	<b>486,519</b>	<b>215,277</b>	<b>762,353</b>	<b>20,669</b>	<b>3,919,417</b>	<b>1,951,663</b>	<b>12,320</b>	<b>50,006</b>	<b>9,98,656</b>
<b>1917 ...</b>	<b>527,604</b>	<b>120</b>	<b>527,679</b>	<b>20,446</b>	<b>480,736</b>	<b>485,498</b>	<b>27,085</b>	<b>1,581,424</b>	<b>9,563,694</b>	<b>29,216</b>	<b>62,618</b>	<b>17,90,047</b>

	Indigo	JUTE			Lac	OILSEEDS		Silk, raw	SUGAR		Tea, Indian	TOBACCO	
		Raw	Gunny bags (b)	No		Linseed	Rape and mustard		Refined	Un-refined		Un-manufactured	Manufactured
<b>Coastwise—</b>	Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
<b>To British Ports in—</b>													
Bengal ...	.....	.....	633	.....	.....	.....	.....	.....	1,553	27	4	126	27
Bihar and Orissa	.....	.....	5,771	.....	.....	.....	126	.....	470	200	.....	1,609	129
Madras ...	228	9	176,092	105	.....	1,518	.....	.....	64,085	.....	.....	.....	.....
Burma ...	.....	162	18,224,718	208	.....	2,403	.....	.....	26,604	2,006	7,248	108,899	2,165
<b>Total ...</b>	<b>228</b>	<b>161</b>	<b>18,717,215</b>	<b>311</b>	<b>.....</b>	<b>5,057</b>	<b>.....</b>	<b>.....</b>	<b>111,412</b>	<b>2,233</b>	<b>7,252</b>	<b>105,566</b>	<b>2,329</b>
<b>Foreign—</b>													
<b>To United Kingdom</b>	1,414	481,376	62,557,260	87,724	2,228,616	4,108	1,292	.....	2	.....	1,172,386	22,029	17
„ Other countries	7,029	517,759	416,481,427	199,485	848,560	41,280	1,226	6,729	4	.....	93,020	22,146	1,926
<b>Total ...</b>	<b>8,493</b>	<b>999,135</b>	<b>479,018,677</b>	<b>287,219</b>	<b>3,177,176</b>	<b>45,438</b>	<b>2,417</b>	<b>6,733</b>	<b>4</b>	<b>1,265,078</b>	<b>44,226</b>	<b>1,955</b>	<b>.....</b>
<b>1919 ...</b>	<b>8,691</b>	<b>999,296</b>	<b>497,024,592</b>	<b>287,520</b>	<b>3,177,176</b>	<b>50,495</b>	<b>2,417</b>	<b>118,144</b>	<b>2,227</b>	<b>1,272,380</b>	<b>149,781</b>	<b>4,284</b>	<b>.....</b>
<b>GRAND TOTAL 1918 ...</b>	<b>20,521</b>	<b>1,104,789</b>	<b>626,011,277</b>	<b>206,781</b>	<b>820,283</b>	<b>196,793</b>	<b>1,755</b>	<b>10,806</b>	<b>124</b>	<b>1,546,784</b>	<b>109,977</b>	<b>2,728</b>	<b>.....</b>
<b>1917 ...</b>	<b>14,528</b>	<b>401,817</b>	<b>670,090,272</b>	<b>196,282</b>	<b>476,412</b>	<b>181,129</b>	<b>2,260</b>	<b>2,158</b>	<b>1,222</b>	<b>1,193,477</b>	<b>141,262</b>	<b>2,006</b>	<b>.....</b>

(a) One maund of paddy is equivalent to 25 seers of rice.  
(b) Including gunny cloth, 2 yards of cloth = 1 bag.



TABLE VI

*Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the six months, April to September, 1919.*

Whither exported	COTTON TWIST & YARN		COTTON PIECEGOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budget	
<b>BENGAL</b>	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
Burdwan ... ..	811	3,019	28,92,778	2,13,351	801,337	20,766	89,917	139,236
Birbhum ... ..	111	2,081	26,54,584	1,69,182	193,356	175	30,194	84,766
Bankura ... ..	167	3,762	5,14,844	1,416	81,734	73	...	54,067
Midnapur ... ..	7,777	6,917	23,07,450	1,82,936	273,229	10,483	71,342	172,605
Hooghly ... ..	4,718	417	7,40,327	1,26,283	269,680	32,793	81,414	131,845
24-Parganas ... ..	834	1,634	4,68,120	2,80,014	644,787	22,053	26,125	135,462
Nadia ... ..	1,604	18,718	42,10,792	3,03,416	392,226	5,323	45,033	175,465
Murshidabad ... ..	476	5,032	26,34,373	1,76,053	267,010	5,760	58,381	152,849
Jamora ... ..	1,319	2,826	13,02,263	2,92,022	232,757	7,164	34,096	85,282
Khulna ... ..	1,908	922	7,44,725	2,74,244	147,641	6,628	21,638	49,167
Rajshahi ... ..	37	512	22,61,951	2,13,724	186,838	2,232	19,301	61,005
Dinajpur ... ..	5	1,087	17,68,263	4,17,246	172,232	762	27,359	100,892
Jalpaiguri ... ..	180	2,612	24,03,610	5,93,028	181,378	1,622	21,519	98,222
Darjeeling ... ..	281	1,247	21,97,907	1,70,992	117,219	717	23,764	59,072
Rangpur ... ..	383	1,968	24,12,909	7,04,662	142,516	1,429	38,826	196,607
Bogra ... ..	19	1,147	27,22,491	18,52,420	128,926	1,073	23,087	128,208
Pabna ... ..	2,978	4,319	26,39,608	9,45,060	199,793	410	120,020	142,462
Malda ... ..	54	3,089	14,99,991	2,55,868	121,811	86	2,829	35,821
Oooch Behar ... ..	86	327	14,32,924	1,59,194	84,419	118	8,017	41,771
Dacca ... ..	9,804	6,065	46,81,679	8,31,530	120,991	12,004	323,799	326,164
Mymensingh ... ..	4,205	2,634	20,54,463	32,13,965	70,848	210	29,270	246,625
Faridpur ... ..	8,188	1,377	16,17,797	8,48,844	165,363	5,638	30,329	189,802
Bakarganj ... ..	7,340	729	6,52,569	10,76,914	200,161	1,960	26,145	106,010
Tippura (including Hill Tippura) ...	2,367	7,068	24,45,714	65,390	104,140	603	780	24,662
Noakhali ... ..	2,322	5,689	9,04,379	2,31,228	24,440	60	21	1,940
Chittagong ... ..	4,107	264	2,63,061	1,62,800	165,558	41	39	1,467
Chittagong Port ... ..	53	397	19,21,268	2,68,552	4,289	...	...	16
<b>Total of Bengal</b> ...	61,776	94,494	5,47,56,300	1,36,23,052	5,792,967	173,679	1,196,834	3,871,140
<b>OTHER PROVINCES AND PLACES</b>								
Bihar and Orissa ... ..	7,123	49,692	2,25,42,745	68,20,569	6,664,968	3,049	688,195	1,190,566
Assam ... ..	8,942	7,777	1,09,10,576	27,27,229	889,741	7,705	18,039	234,103
J. P. of Agra and Oudh ... ..	1,376	2,141	1,38,23,243	21,95,347	6,319,166	1,622	624,420	8,926
Punjab ... ..	2,329	1,310	92,68,228	3,02,906	8,561,826	46	38,435	8
Sind and British Baluchistan ...	...	...	1,06,759	...	1,445,309	237	...	...
Central Provinces and Berar ...	16	440	7,86,407	1,16,917	1,494,368	980	11,445	2,406
Bombay ... ..	456	463	9,95,270	90,102	5,166,287	5,433	176	...
Madras ... ..	1,961	4,446	4,92,797	2,36,007	2,798,721	3,623	...	119
Burma ... ..	6,266	82,205	28,62,261	7,74,499	16,534,718	293	...	373
Rajputana and Central India ...	64	168	6,69,410	26,113	927,420	1,658	26,601	2
Kashmir State ... ..	47	1	1,963	...	41	...	...	...
Nizam's Territory ... ..	...	3	1,74,225	960	299,360	2,614	...	...
Mysore ... ..	...	...	9,054	1,222	189,051	...	...	...
Port Blair ... ..	...	696	7,700	4,730	633	...	...	...
<b>1919</b> ...	91,247	342,766	11,87,03,058	2,70,11,872	58,963,385	202,927	2,613,168	4,426,665
<b>GRAND TOTAL 1918</b> ...	145,979	202,942	12,50,50,857	1,10,89,260	49,124,298	149,726	2,324,276	3,944,921
<b>1917</b> ...	97,081	210,296	11,80,80,947	1,11,80,936	47,251,004	199,973	2,683,161	2,443,466

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 2 yards of cloth = 1 bag.

‡ The exports of Kerosene oil from Budget-Budget to Calcutta were 269,526 maunds in the six months, April to September, 1912, as against 522,902 maunds and 426,178 maunds for the corresponding periods of 1918 and 1917, respectively.



TABLE VII

*Statement of the Routes by which the Articles Enumerated in Table No. VI were exported from the Calcutta Trade Block in the six months, April to September, 1919*

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny-bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budget-Budge	
	Mds	Mds	Rs	Rs	No	Mds	Mds	Mds
E. I. Railway ...	6,836	33,949	2,70,29,545	26,64,191	7,464,169	33,175	826,829	669,364
E. B. Railway (Including B. O. Railway)	2,447	59,667	2,30,73,824	84,94,016	3,193,871	31,316	414,601	1,449,843
A. B. Railway ...	1,304	13,590	79,64,451	6,38,477	140,999	1,661	246	83,025
B. N. Railway ...	1,026	26,973	24,67,133	8,46,001	2,164,521	6,392	593	447,659
B. & N. W. Railway ...	88	6,420	1,37,18,768	35,69,997	2,769,640	1,316	283,269	275,420
O. & R. Railway ...	414	363	29,25,654	1,66,301	780,948	759	268,318	37
Howrah-Amra and Howrah-Bankhala Light Railways	1,160	...	2,50,621	...	25,793	6,314	...	17,133
By rail ...								
N. W. Railway ...	1,193	465	23,19,968	74,634	8,819,059	30	10,738	...
G. I. P. Railway ...	520	244	14,04,964	98,171	5,513,819	7,018	5,326	3
B. R. & C. I. Railway ...	137	347	7,66,603	16,422	1,462,553	156	2,367	...
M. & S. M. Railway ...	1,651	3,048	3,34,967	1,42,826	2,554,464	3,796	...	30
S. I. Railway ...	...	196	1,028	42,346	874,633	...	...	...
J. B. Railway ...	...	9	2,23,125	12,569	106,314	278	425	...
N. G. B. Railway ...	...	3	1,74,537	980	176,874	3,514	...	...
Other Railways ...	64	3	5,44,363	90,990	129,933	1,003	25,333	9,076
By river ...								
Bengal ...	49,106	16,507	1,41,09,401	55,11,009	1,170,755	30,863	543,614	663,896
Bihar and Orissa ...	684	812	4,27,973	1,69,724	1,637,661	13	...	1,049
Assam ...	8,443	2,033	60,41,999	22,32,941	577,977	4,723	12,449	202,349
U. P. of Agra and Oudh ...	58	38	80,391	10,684	185,780	40	...	...
By boat ...	4,780	...	2,20,080	31,790	248,111	45,060	155,006	807,309
By road ...	2,641	233	6,13,471	3,74,776	277,007	89,833	2,639	81,167
By sea ...	7,724	84,506	28,69,323	7,79,329	18,717,216	...	10,400	7,859
Total ...								
1919 ...	91,247	243,766	11,87,06,038	2,70,11,873	56,953,395	203,927	3,613,166	4,436,665
1918 ...	145,979	302,943	12,66,80,637	1,10,88,360	69,134,398	148,730	2,324,276	2,964,931
1917 ...	97,061	210,396	11,80,80,047	1,11,60,936	47,351,504	199,973	2,683,161	2,448,496

\* The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth. 2 yards of cloth = 1 bag.

DEPARTMENT OF STATISTICS, INDIA.

December 1, 1919.

G. FINDLAY SHIRRAS,

Director of Statistics.



## IRRIGATION DEPARTMENT, BENGAL.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1919-20.  
Area leased for irrigation up to end of September 1919.

Circle.	District.	Canal.	Estimated full discharge. C. ft.	Average discharge in month. C. ft.	Discharge utilized. C. ft.	Approximate area of land irrigated during the year up to the end of the month. Acres.	Approximate area of land under irrigation up to the same date last year. Acres.	DETAILS OF AREAS LEASED.						RAINFALL, 1919-20.		RAINFALL, 1918-19.	
								Long-term leases.	SEASON LEASES.				Grand Total.	During month. Inches.	Up to end of month. Inches.	During month. Inches.	Up to end of month. Inches.
									Rail.	Sugarcane.	Hot-weather.	Total.					
S.W. CIRCLE.	Midnapore	Midnapore	1,411	460	413	73,392	68,710	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	4.73	55.76	9.96	54.88
		Panchkura	522	38	37	5,966	6,989	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	4.08	52.83	5.70	48.29
	Howrah	Tidal Reaches, Ranges I and II.	...	...	...	...	...	...	...	...	...	...	...	2.42	67.13	6.10	53.41
		Total Midnapore Canal	...	...	...	79,358	75,699	70,270	11,979 <sup>*</sup>	...	...	11,979	82,249	...	...	...	...
Burdwan and Hooghly.		Total of the corresponding period of last year.	...	...	...	...	...	70,916	5,525	...	...	5,525	76,441	...	...	...	...
		Edeo Canal	1,000	368	368	18,823	18,941	18,308	116†	30	...	168	18,476	7.56	54.95	6.77	58.60
		Total of the corresponding period of last year.	...	...	...	...	...	19,063	23	...	...	35	19,098	...	...	...	...
		GRAND TOTAL	...	...	...	98,181	94,640	88,578	12,095	30	...	12,147	100,725	...	...	...	...
		GRAND TOTAL OF THE CORRESPONDING PERIOD OF LAST YEAR.	...	...	...	...	...	89,979	5,648	...	...	5,660	95,639	...	...	...	...

\* Of which 66 acres are single watering.

† Single watering.

CALCUTTA,  
The 2nd December 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



## IRRIGATION DEPARTMENT, BENGAL.

## IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1919-20.

Area leased for irrigation up to end of October 1919.

Circle.	District.	Canal.	DETAILS OF AREAS LEASED.										RAINFALL, 1919-20.		RAINFALL, 1918-19.				
			Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	SEASON LEASED.					Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.		
								Long-term lease.	Kharif.	Acres.	Rabi.	Sugarcane.						Hot-weather.	Total.
C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.				
S.-W. CIRCLE	{	Midnapore ... Pauchkura ... Tidal Reaches, Ranges I and II. Total Midnapore Canal ... Total of the corresponding period last year. Eden canal ... Total of the corresponding period last year. GRAND TOTAL ... GRAND TOTAL OF THE CORRESPONDING PERIOD OF LAST YEAR.	...	1,411	674	78,404	69,694	64,973	13,876	...	...	...	78,849	1.64	57.40	55.08			
			...	522	48	6,501	7,318	6,733	845	...	...	...	845	0.57	53.40	48.29			
			...	...	...	...	...	...	...	...	...	...	...	2.35	69.48	53.41			
			...	...	...	84,905	77,012	71,706	14,721	...	...	...	14,721	...	...	...			
{	Burdwan and Hooghly.	...	...	...	...	...	...	71,525	8,840	...	...	8,840	...	...	...	...			
		...	1,000	248	19,562	19,519	18,308	1,202†	30	22	...	1,254	1.36	56.31	58.65				
		...	...	...	...	...	19,164	601	...	12	...	613	...	...	...	...			
		...	...	...	1,04,467	96,531	90,014	15,923	30	22	...	15,975	...	...	...	...			
{		...	...	...	...	...	...	90,689	2,441	...	12	...	9,453	...	...	...			
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			

† Of which 1,705 acres are single watering.

• Of which 694 acres are single watering.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.CALCUTTA,  
The 2nd December 1919.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffio on the Olroular and Eastern Danals for  
the week ending Saturday, the 22nd November 1919, as compared  
with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 22ND NOVEMBER 1919.			WEEK ENDING SATURDAY, THE 23RD NOVEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	171	9,022	148	1,014	126,970	2,214
Jute ...	197	83,859°	954	188	66,918†	855
Firewood ...	58	25,150	402	196	123,800	1,913
Other articles ...	768	183,872	2,057	1,039	205,115	2,770
Total ...	1,194	301,903	3,561	2,437	522,803	7,752
Empty boats and rafts ...	602	...	1,323	896	...	2,057
GRAND TOTAL	1,796	301,903	4,884	3,333	522,803	9,809

Mds.  
° Weight by canal measurement ... 92,325  
† Ditto ditto ... 70,169½

CALCUTTA,  
The 25th November 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal

## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffio on the Olroular and Eastern Danals for  
the week ending Saturday, the 29th November 1919, as compared  
with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 29TH NOVEMBER 1919.			WEEK ENDING SATURDAY, THE 30TH NOVEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	587	26,560	402	745	76,035	1,159
Jute ...	225	67,742°	952	146	60,963†	664
Firewood ...	72	33,300	491	99	51,825	775
Other articles ...	824	193,828	2,275	671	141,469	1,908
Total ...	1,708	321,430	4,060	1,661	330,292	4,506
Empty boats and rafts ...	525	...	1,391	487	...	1,067
GRAND TOTAL	2,233	321,430	5,451	2,148	330,292	5,573

Mds.  
° Weight by canal measurement ... 72,863½  
† Ditto ditto ... 65,360

CALCUTTA,  
The 2nd December 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**Statement showing the gauge-readings at Dacca Water-works Station  
on the river Burliganga for the week ending the 15th November 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
9th Nov.	58.65	11—55	59.0	6—0	58.4	58.55	F. T. at 6-10, and R. T. at 12-5.
10th "	58.65	12—38	59.05	6—45	58.6	58.72	F. T. at 6-55, and R. T. at 12-45.
11th "	58.40	13—40	58.88	7—50	58.26	58.60	F. T. at 8 and R. T. at 12-50.
12th "	58.0	14—30	58.40	8—48	57.8	58.25	F. T. at 9 and R. T. at 12-45.
13th "	57.9	15—40	58.30	9—40	57.7	58.18	F. T. at 9-55, and R. T. at 12-50.
14th "	57.88	16—30	58.30	10—30	57.6	58.2	F. T. at 10-40, and R. T. at 12-45.
15th "	57.7	17—15	58.15	11—5	57.42	58.02	F. T. at 11-30, and R. T. at 12-45.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.85	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	Taken at low tide.
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.80	
16th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,

The 20th November 1919.

W. J. KERR,

Executive Engr., Dacca Division.

**Statement of Weekly Gauge-readings on the River Ganges at Rampur-  
Boalia for the week ending the 22nd November 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea- level according to P. W. D. datum.(a)	Height of surface above mean sea- level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
16th November	8 A.M.	Zero of gauge is at mean sea level.	43.70	41.41	B. M. on College corrected, 64.93.
17th "	8 "		43.40	41.31	
18th "	8 "		43.20	41.31	
19th "	8 "		43.10	41.21	
20th "	8 "		42.90	41.11	
21st "	8 "		42.80	41.01	
22nd "	8 "		42.70	40.91	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	...	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	...	Lowest "	41.70 on 21st April 1918	36.89
Record	...	Highest "	69.25 on 26th August 1879	64.44
Do.	...	Ditto "	69.08 on 9th September 1885	64.27
Do.	...	Ditto "	68.80 on 25th August 1906	63.47
Do.	...	Ditto "	68.21 on 26th August 1890	63.40
Do.	...	Lowest "	37.63 on 25th April 1884	32.82
Do.	...	Ditto "	38.18 on 14th-15th April 1888	33.32
Do.	...	Ditto "	39.02 on 21st-22nd April 1897	34.21
Do.	...	Ditto "	39.23 on 6th-7th May 1903	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,

The 22nd November 1919.

M. SENGUPTA,

Executive Engineer, Rajshahi Divn.



**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 22nd November 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
16th November	7 A.M.	14.0	14.0	11.8	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
17th	7 "	13.7	13.7	11.7	
18th	7 "	13.4	13.4	11.7	
19th	7 "	13.1	13.1	11.7	
20th	7 "	12.9	12.9	11.8	
21st	7 "	12.7	12.7	11.7	
22nd	7 "	12.5	12.5	11.8	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	"	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	"	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	"	25.74 on 20th and 31st August 1893.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	"	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	"	25.66 on 31st July 1900.
Do.	...	Lowest	"	1.0 on 8th February 1914.
Do.	...	Ditto	"	2.42 on 13th March 1908.
Do.	...	Ditto	"	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	"	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	"	3.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,

The 23rd November 1919.

N. DE,

Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 10, 1919.

## SUPPLEMENT.

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## LIBERALITY OF RAJA RAO JOGENDRA NARAYAN ROY BAHADUR OF LALGOLA, IN THE DISTRICT OF MURSHI- DABAD.

No. 2028, dated Calcutta, the 9th December 1919.

From—The Hon'ble MR. L. S. S. O'MALLEY, C.I.E., I.C.S., Secretary to the Government of Bengal, General Department.

To—The Commissioner of the Presidency Division.

IN continuation of this department endorsement No. 1832, dated the 22nd November 1919, I am directed to request that you will be so good as to convey the thanks of Government to Raja Rao Jogendra Narayan Roy Bahadur of Lalgola, in the district of Murshidabad, for his liberality and public spirit in making an endowment consisting of certain properties and Government securities in Government promissory notes and War Loan bonds to the face value of Rs. 48,100, to be called the Rao Mahesh Narayan Roy Fund for the maintenance of the Mahesh Narayan Academy at Lalgola, and for the foundation of scholarships for students from the said school passing the Matriculation Examination of the Calcutta University in the first division, but not obtaining Government scholarships.



**RESOLUTION ON THE REPORTS ON INLAND EMIGRATION  
UNDER THE ASSAM LABOUR AND EMIGRATION ACT, 1901,  
FOR THE YEAR ENDING THE 30TH JUNE 1919.**

**GOVERNMENT OF BENGAL.**

**COMMERCE DEPARTMENT.**

**Emigration Branch.**

**CALCUTTA, THE 8TH DECEMBER 1919.**

**RESOLUTION—No. 4612Emi.**

**READ—**

The Reports on Inland Emigration under the Assam Labour and Emigration Act, 1901 (VI of 1901), for the year ending the 30th June 1919, submitted by the Superintendent of Emigration, Calcutta, and the District and Assistant Superintendents of Emigration.

1. The only administrative change of importance introduced during the year under review was the discontinuance of the submission to District Magistrates of a monthly list of emigrants engaged by garden sardars. The large and unprecedented increase in the number of emigrants despatched to the labour districts was the most marked feature of the year.

2. One thousand five hundred and twenty-two garden-sardars (including 353 sardarnis) were employed during the year in this Presidency as against 640 (including 190 sardarnis) in the year 1917-18. All of them worked under the control of duly licensed local agents. The number of local agents' licenses issued during the year was 6, or one less than in the previous year.

3. Recruiting operations were conducted in the districts of Burdwan, Midnapore, Bankura and Birbhum, where 2,364 emigrants were recruited during 1918-19 as against 508 in the preceding year. The largest number of emigrants went from the districts of Midnapore, Bankura and Burdwan, viz., 1,458, 701 and 146, respectively. No criminal case connected with emigration was reported during the year 1918-19.

4. The total number of emigrants from Bengal and other provinces who embarked during the year at Goalundo was 119,883 as compared with 9,808 in the previous year, the increase being attributed partly to the improved and more elaborate recruiting organisation made by the tea industry and partly to the scarcity and high prices of food-stuffs in the recruiting districts. The poor health and lowered physical condition of the emigrants and the abnormally large numbers in which they were proceeding to the labour districts resulted in a serious outbreak of cholera and influenza among them. The rush of emigrants to the port of embarkation was unprecedented during the months of January and February 1919, when the number of admissions to the Goalundo charitable hospital was highest, the number of sick emigrants seeking admission rising to 268 on the 13th February 1919. This hospital which had only 23 beds was suddenly called upon to accommodate on an average 175 patients daily. The dislocation of steamer traffic and railway arrangements aggravated the situation, the available space in the rest-houses at Goalundo being quite insufficient to accommodate the large number of emigrants detained there on account of want of space in the steamers. The difficulty was, however, overcome with the assistance of the steamer companies, the Assam Labour Board and the Surgeon-General with the Government of Bengal, by the provision of temporary extra accommodation for about 250 patients and by the engagement of additional temporary hospital staff. Steps were taken at the same time to prevent as far as possible the importation of cholera cases from affected areas in the recruiting districts and to maintain the rest-houses at the several halting places in this Presidency in good sanitary condition. These measures, together with the introduction



of anti-cholera inoculation at all local agencies, restored the situation at Goalundo to a normal condition by the end of February 1919. The question of more efficient control over the sanitary arrangements for emigrants in transit, and the establishment of an emigration hospital at Goalundo, were discussed at a conference held in the office of the Assam Labour Board on the 1st August 1919. Remedial measures are now under the consideration of the Board in consultation with the local Governments concerned.

5. Three hundred and sixty deaths were reported to have occurred among emigrants at Asansol, Kharagpur or Naihati on their way to Goalundo, and there were 545 deaths among 120,483 emigrants arriving at the latter station. There was no death during the steamer journey among the 40,887 emigrants who embarked for Cachar and Sylhet, but of 78,996 emigrants who embarked for Assam 332 died during the voyage.

6. Five emigrants who refused to embark were released under the orders of the Subdivisional officer, Goalundo, 13 were rejected as physically unfit for labour on tea estates, and two emigrants were repatriated from the labour districts through Goalundo.

7. In connection with the transport of labour to Assam receipts rose from Rs. 1,566 in the preceding year to Rs. 1,840, while the expenditure fell from Rs. 18,847 to Rs. 14,482.

8. The Governor in Council desires to thank the several officers of this Government, the Assam Labour Board and the steamer companies, who rendered valuable assistance in combating the outbreaks of cholera and influenza among the emigrants at Goalundo. The thanks of Government are also due to the Superintendent of Emigration, Calcutta, for his report and to the local officers for their assistance in the administration of the Act.

By order of the Governor in Council,

A. MARR,

*Secy. to the Govt. of Bengal.*



**RESOLUTION ON THE ADMINISTRATION REPORT OF THE  
COMMISSIONERS FOR THE PORT OF CALCUTTA FOR  
THE YEAR 1918-19.**

**GOVERNMENT OF BENGAL.**

**MARINE DEPARTMENT.**

CALCUTTA, THE 9TH DECEMBER 1919.

**RESOLUTION—No. 3820 Marine.**

READ—

The Administration Report of the Commissioners for the Port of Calcutta for the year 1918-19.

**General features of the Administration.**—The great war, of course, as in the preceding four years, overshadowed all the activities of the Port Trust. The Armistice was signed seven months after the commencement of the financial year under review; but, as was to be expected, the cessation of hostilities did not immediately bring about any marked improvement in the conditions. The following figures illustrate the position :—

	1918-19.	1917-18.	1916-17.	1915-16.	1914-15.	1913-14.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
I.—Net tonnage of the port ...	4,256,987	3,714,344	2,967,798	2,804,080	2,094,011	2,292,462
II.—Jetties, Imports ...	1,186,797	917,978	788,431	686,010	633,693	574,833
III.—Docks, Imports ...	613,876	700,133	570,997	444,210	363,383	482,403
IV.— „ General Exports ...	1,231,589	920,659	1,054,985	1,185,159	995,112	1,097,562
V.—Docks, Coal Exports ...	3,017,180	2,633,805	1,610,645	1,994,528	1,014,993	1,333,285

**Income.**—The total income during the year amounted to Rs. 1,90,58,513 against the revised estimate of Rs. 1,86,33,432 and the actuals of Rs. 1,58,39,175 for the preceding year.

Under the following heads the receipts fell appreciably below the revised estimate for the year :—

	Actual.	Revised estimate.	Decrease.
	Rs.	Rs.	Rs.
Jetties ...	26,84,199	27,62,550	78,351
Tea Warehouse ...	3,16,305	3,32,300	15,995
Petroleum Wharf ...	4,01,770	4,12,670	10,900

This decrease was more than counterbalanced by increases under other heads, the principal of which are the following :—

	Actual.	Revised estimate.	Increase.
	Rs.	Rs.	Rs.
Rentable lands and buildings ...	8,84,119	8,67,050	17,069
Railway ...	16,86,772	16,02,900	83,872
Port ...	4,48,344	4,32,500	15,844
Special war surcharge ...	52,06,535	50,00,000	2,06,535

**Expenditure.**—The expenditure on Revenue Account amounted to Rs. 1,84,14,423 against Rs. 1,56,29,349 in the previous year and an estimate of Rs. 1,81,76,980 for the year under review.



The chief items of expenditure which appreciably exceeded the budget estimate were under the following heads :—

		Actuals.	Estimate.	Increase.
		Rs.	Rs.	Rs.
Control	... ..	10,92,744	10,42,925	49,819
Jetties	... ..	9,67,201	9,39,548	27,653
Inland Vessels Wharves	... ..	2,09,266	1,69,592	39,674
Port	... ..	7,11,731	6,81,408	27,323
Port Approaches	... ..	10,00,585	9,14,952	85,583
Wet Docks	... ..	30,22,432	29,04,570	1,17,862
Ferry Service	... ..	3,68,616	3,45,226	23,390

**Jetties.**—The tonnage handled at the jetties amounted to 574,833 against 632,693 for the year 1917-18, and the total earnings of traffic at the jetties were Rs. 23,91,512 against Rs. 13,52,222 for the preceding year. Although there was a decrease of 58,860 tons in the weight of imports, there was an increase of Rs. 10,39,290 in revenue, Rs. 8,61,564 of which was due to heavy receipts from wharf rent, chiefly on iron, which, owing to market conditions, the importers allowed to lie on the jetty premises. The other items which contributed to the increased revenue were medicines, oilman's stores, sugar, hardware, machinery, rice and miscellaneous articles. On the other hand, the decreased earnings under glassware, cement, piece-goods, tea shocks and unclassified case goods showed a falling off in imports.

**Docks.**—During the year 790 vessels entered the docks as against 840 vessels in the previous year. Of these the number under the head "Hired transports and Royal Indian Marine vessels" was one against 88 in the previous year. The total imports and exports traffic including coal in tons at the docks were 482,403 and 2,430,847, respectively, against 363,383 and 2,010,105 in the preceding year. The increase of tonnage of imports over that of the preceding year was owing to heavier importations of sugar, rice and wheat, while to the increase in exports coal contributed 318,292 tons and wheat, seeds, rice, jute and manganese ore made up the balance.

**Petroleum Wharf, Budge-Budge.**—The total number of vessels that were berthed at the Petroleum wharf in 1918-19 was 114 against 106 in the preceding year; but there was a decrease in the number of vessels bringing kerosine oil, the actual figure being 65 in 1918-19 against 76 in 1917-18. The total revenue of the dépôt was Rs. 4 lakhs as against Rs. 3·93 lakhs for the preceding year, representing only a nominal increase of Rs. 8,629.

The installation for the storage of petrol in bulk was completed early in June 1918.

**Tea warehouse.**—The volume of tea traffic dealt with at the warehouse was some 8·6 per cent. less than in the preceding year. The receipts amounted to Rs. 3,16,305 against Rs. 4,59,796 in the previous year.

**Ferry service.**—Thirteen vessels, including two Howrah Bridge ferry steamers, were at work during the year. The total number of passengers carried in the ferry steamers increased with a corresponding increase in the earnings.



**Rates and charges.**—During the year the following were the more important changes in rates and charges made by the Commissioners :—

- (1) the introduction of an all-round rate of one-half pies per gallon as wharfage on petrol in bulk and in cases imported at Budge-Budge instead of 2 annas per ton of 20 drums ;
- (2) the introduction of a terminal charge of 12 annas per ton on goods received at or despatched from the docks and jetties other than ocean-borne traffic ; and
- (3) the imposition, as a temporary measure, to expedite deliveries, of a penal rate of rent on iron landed at the jetties.

**Navigable channels.**—During the year the dredger "Balari" worked on the Eastern Gut bar, while the dredger "Sandpiper" was mainly engaged on the Moyapur Bar. The improvement effected in the river channels by dredging was generally maintained, and there was a steady increase in the number of deep draft vessels leaving the Port and a reduction in instances in which vessels were neaped.

**Night navigation.**—The restriction of navigation by night of inward bound vessels between Mud Point and Saugor was removed. This step was of great importance to the shipping as it completed the arrangement for both inward and outward navigation by night between Mud Point and Sandheads.

**Channel buoys and lights.**—During the year all buoys, including gas buoys and moorings, were examined and repaired when necessary.

The working of the automatic lighted semaphore at Phuldobi gave satisfaction. The semaphore is worked by an instrument which indicates automatically the rise of tide at night ; and the inventor of the apparatus, Mr. H. G. Reaks, River Surveyor, received from the Commissioners a bonus of Rs. 15,000 for its use by them.

**Capital works.**—The chief capital works that were in progress during the year were :—

- (a) the river-side berths at Garden Reach ;
- (b) the reclamation work of diversion roads in connection with the new Dock scheme ; and
- (c) the remodelling scheme at Budge-Budge, including bulk petrol depôt.

**Capital account.**—The capital account closed with a credit balance of Rs. 49.43 lakhs against Rs. 43.82 lakhs for the preceding year. The total liabilities of the Trust on Capital Account at the close of the year amounted to Rs. 10,27,80,448, while the total assets were Rs. 14,66,53,794.

In addition to these assets, the Commissioners have at their disposal three other funds accumulated out of revenue which constitute an important asset of the Trust. These are the Revenue Reserve Fund, the Vessels' Replacement Fund and the Fire Insurance Fund. The total amount at credit of these funds on the 31st March 1919 was Rs. 71.39 lakhs.

The total expenditure on Capital works was estimated at Rs. 11.86 lakhs.



**General.**—During the year 39 general meetings of the Commissioners and 16 Committee meetings were held. Mr. S. O. Williams was Vice-Chairman to the Commissioners from 1st April 1918 to 19th February 1919, when he proceeded on combined leave for nine months. Mr. J. T. McCloughin, Traffic Manager, officiated as Vice-Chairman for the remaining period of the year.

The Governor in Council desires to express his regret at the death of Mr. John Scott, who for over nine years held the post of Chief Engineer of the Trust and to thank the Commissioners, the Chairman, Mr. Stevenson-Moore, c.v.o., i.c.s., and the Vice-Chairman Mr. S. C. Williams for their successful administration of the Trust.

By order of the Governor in Council,

F. A. A. COWLEY,

*Secretary to the Govt. of Bengal,*



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 6th December 1919.**

Name of article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	8 8 0	9 8 0	0 2 6	0 3 0
" medium ...	8 8 0	9 12 0	0 4 6	0 5 0
Patnai, coarse ...	8 14 0	9 4 0	0 3 3	0 3 6
" medium ...	8 10 0	8 13 0	0 4 6	0 5 0
Nagra, coarse ...	9 0 0	9 6 0	0 3 3	0 3 6
" medium ...	9 0 0	9 4 0	0 4 6	0 5 0
Dudhkalma ...	9 0 0	9 4 0	.....	.....
Rangoon Boiled ...	.....	.....	0 2 6	0 3 6
Kajla ...	6 4 0	6 10 0	.....	.....
Wheat, Dudhia ...	7 12 0	8 0 0	.....	.....
" Gangajali ...	7 0 0	7 4 0	.....	.....
" Jamali ...	8 1 0	8 6 0	0 2 6	0 3 6
Gram, Patnai (whole) ...	9 2 0	9 11 0	0 4 0	.....
" dal ...	11 8 0	12 8 0	0 5 0	0 8 0
Mung " (Hari) ...	10 0 0	11 0 0	0 6 0	.....
" " (Krishna) ...	8 8 0	12 0 0	0 4 0	0 5 0
Arhar " ...	7 12 0	8 8 0	0 3 6	0 4 6
Masur " (split) ...	10 0 0	11 10 0	0 5 0	.....
" " (Khanri) ...	7 12 0	9 0 0	0 4 0	.....
Kalai " ...	.....	.....	0 1 6	0 1 9
Salt ...	22 12 0	.....	0 9 0	0 12 0
Sugar (Brown Java) ...	11 8 0	12 0 0	0 6 6	0 7 0
Gur, Bheli ...	10 0 0	12 0 0	0 3 0	0 5 0
" Bhursut ...	35 8 0	37 8 0	0 15 0	1 2 0
Milk ...	9 4 0	9 14 0	0 4 0	0 5 0
Mustard oil ...	7 4 0	.....	0 4 0	0 5 0
Flour (country) ...	7 12 0	.....	0 4 0	0 5 0
Atta, No. 3 ...	10 6 0	.....	0 5 0	0 5 6
" " 2½ ...	9 12 0	10 0 0	0 5 0	0 5 6
" " B ...	100 0 0	108 0 0	2 8 0	.....
Suji ...	99 0 0	100 0 0	2 6 0	.....
Ghee (Bhadwa, Matki, etc.) ...	94 0 0	95 0 0	2 4 0	.....
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.) ...	5 4 0	5 8 0	.....	.....
" (Lalli, Etwa, Sagar, etc.) ...	6 2 0	7 10 0	0 2 6	0 3 6
Maize ...	.....	.....	.....	.....
Potato ...	2 8 0	3 0 0	0 2 6	0 3 0
Patal ...	4 0 0	4 4 0	0 2 6	.....
Brinjal ...	18 0 0	22 0 0	0 10 0	0 12 0
Onion ...	.....	.....	0 8 0	0 10 0
Fish, Rahu ...	.....	.....	0 3 0	0 5 0
Mutton (2nd class) ...	.....	.....	.....	.....
Beef (2nd and 3rd classes) ...	.....	.....	.....	.....

N.B.—This is an abstract of prices of the following markets :—

Wholesale.—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.  
Retail.—Sir Stuart Hogg Market, Orphananj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. N. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 8th December 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 4th December 1919.

**Summary.**—No rainfall during the week. Reaping of winter paddy is in progress. Sowing of spring crops is well advanced. Standing crops are reported to be doing well. The average price of common rice has fallen by about 2·87 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	{ 5 6½ }	{ 5 6½ }	Harvesting of sugarcane and <i>aman</i> paddy continues. Water is sufficient. Prospects of standing crops are good.
	Diamond Harbour.	(n)	(n)	{ 5 6½ }	
	Barrackpore	Nil	{ 4½ 6 }	{ (n)	
	Barasat ...	Nil	5	(n)	
	Basirhat ...	Nil	{ 4½ 5½ }	{ 5 5½ }	
2	NADIA ...	Nil	{ 5½ 6½ }	{ 5½ 6½ }	Prospects of standing crops are favourable. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	Nil	5	5	
	Meherpur ...	Nil	5½	{ 5½ 5½ }	
	Chuadanga ...	Nil	{ 5½ 6 }	{ 5½ 6 }	
	Ranaghat ...	Nil	5	5	
3	MURSHIDABAD	Nil	6½†	5†	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops is almost finished. Harvesting of winter rice has commenced. Fodder is sufficient. No large import or export of rice. Burma rice is not available.
	Lalbagh ...	Nil	5½†	{ 5† 6½ }	
	Jangipur ...	Nil	5½†	5½†	
	Kandi ...	Nil	5½†	5½†	
4	JESSORE ...	Nil	{ 5½ 6 }	{ 5½ 6 }	Standing crops are doing well. Sowing of <i>rabi</i> crops is finished and harvesting of <i>aman</i> paddy continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	Nil	6	5	
	Magura ...	Nil	{ 5 5½ }	5	
	Narail ...	Nil	{ 6½ 6 }	{ 6½ 6 }	
	Bangaon ...	Nil	5½	6	
5	KHULNA ...	Nil	{ 5½ 6 }	{ 5 5½ }	Weather seasonable. Harvesting of early <i>aman</i> paddy is going on. Cattle-disease is reported from Paikgacha police-station. Fodder and water are sufficient.
	Satkhira ...	Nil	5	{ 4½ 5½ }	
	Bagerhat ...	Nil	{ 5½ 5½ }	{ 5½ 5½ }	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SEER, PER RUPEE.		Character of the weather condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
6	BURDWAN ...	Inches Nil	5	5	Weather cold. Sowing of <i>rabi</i> crops and potatoes and harvesting of early <i>aman</i> paddy continues. Sugarcane and other standing crops are doing well. Cattle-disease is reported from Katwa subdivision.
	Asansol ...	Nil	6½	6½	
	Katwa ...	Nil	5½	5½	
	Kalna ...	Nil	4½	4½	
7	BIRBHUM ...	Nil	6	6½	Harvesting of winter rice has commenced. Burma rice is not available. Prospects of standing crops are fair. Fodder and water are sufficient.
	Rampurhat...	Nil	6½	6	
8	BANKURA ...	Nil	6	5½	Reaping of <i>aman</i> paddy continues. Sowing of <i>rabi</i> crops is finished. Prospects of standing crops are good. Export of rice and paddy is increasing.
	Vishnupur...	Nil	7	7½	
9	MIDNAPORE	Nil	{ 5½ 6½† 6½	{ 5½ 6½† 6½	Weather seasonable. Prospects of standing crops are fair. Harvesting of winter rice and sowing of <i>rabi</i> crops still continue. Fodder is sufficient.
	Ghatal ...	Nil	{ 4½ 5½† 5½†	{ 5 5½† 6½†	
	Tamluk ...	Nil	{ 4½ 5½† 6½	{ 4½ 5½† 6½	
	Contai ...	Nil	6½	5½	
10	HOOGLY ...	Nil	{ 4½ 5½ to 6½	{ 4½ 5½ to 6½	
	Serampore ...	Nil	{ 5½ 6	{ 5½ 6	Effects of weather on the growth of the crops are favourable. Fodder is sufficient. Price of rice is steady.
	Arambagh ...	Nil	6½	6½	
11	HOWRAH ...	Nil	{ 4½ 6½	{ 4½ 6½	Weather seasonable. Harvesting of <i>aman</i> paddy continued. Prospects of sugarcane and <i>rabi</i> crops are fair. Fodder is sufficient.
	Ulubaria ...	Nil	{ 4½ 6½	{ 4½ 6½	
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	6	{ 5½ 6½	Prospects of standing crops are favourable. Harvesting of winter rice continues. Fodder is sufficient.
	Naogaon ...	Nil	6½	6½	
	Nator ...	Nil	{ 5½ 5½	{ 4½ 5½	
13	DINAJPUR ...	Nil	4½	{ 4½ 6	Weather seasonable. Winter paddy is in course of harvesting.
	Thakurgaon	Nil	4½	4½	
	Balurghat ...	Nil	6	4½	
14	JALPAIGURI...	Nil	{ 4½ 6	{ 4½ 6	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	Nil	{ 4 6	{ 4 6	

\* Burma rice.

† Coarse rice.

‡ And rice.

§ New.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
15	DARJEELING	0.01	{ 4½ 5½ }	{ 4½ 5½ }	Winter paddy and <i>marua</i> are being harvested. Potatoes are being sown in places. Stock of rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	{ 5 5½ }	{ 5½ 5½ }	
	Siliguri ...	Nil	{ 5 6 }	{ 5 6 }	
	Kalimpong,...	Nil	{ 5½ 5½ }	{ (n) 5½ }	
16	RANGPUR ...	Nil	{ 4½ 5 }	{ 4½ 6 }	Sowing of <i>rabi</i> crops is almost completed. Harvesting of winter rice is in full sowing. Fodder and water are sufficient. Cattle-disease is reported from thanas Ulipur and Kurigram.
	Nilphamari	Nil	5	5½	
	Kurigram ...	Nil	4	4	
	Gaibandha ...	Nil	{ 5 5½ }	{ 5 6 }	
17	BOGRA ...	Nil	6½	{ 6½† 6½ }	Harvesting of winter rice continues. Prospects are fair.
18	PABNA ...	Nil	{ 5 6 }	{ 5 6 }	Prospects of standing crops are good. Fodder is sufficient.
	Sirajganj ...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
19	MALDA ...	Nil	5½	5	Weather seasonable. Harvesting of winter rice has commenced. Prospects of standing crops are good. Fodder and water are sufficient.
20	COOCH BEHAR	Nil	5½	5½	Weather seasonable. Harvesting of <i>hai-mantic</i> paddy transplantation of tobacco seedlings and sowing of mustard continue. Fodder and water are sufficient. Burma rice is not available.
21	DACCA ...	Nil	{ 4½ 5½ }	{ 4½ 6½ }	Weather seasonable. Harvesting of winter rice and showing of <i>boro</i> paddy are proceeding. Conditional prospects of standing crops are good. Fodder is dear at Munshiganj subdivision. Water is sufficient. The new rice is coming into market.
	Manikganj ...	Nil	{ 4½ 5½ }	{ 4½ 5½ }	
	Narayanganj	Nil	{ 4½ 6½ }	{ 4½ 6½ }	
	Munshiganj (a)	Nil	{ 5½† 6 }	{ 4½ 6 }	
22	MYMENSINGH	Nil	{ 4 5½ }	{ 4 5½ }	Weather seasonable. Sowing of <i>rabi</i> crops is nearly finished. Harvesting of winter rice is going on. Prospects of crops are good. Fodder and water are sufficient. Cattle-disease in epidemic form is reported from Ghatail and sporadic cases from Kotwali police-stations.
	Jamalpur ...	Nil	{ 3½ 6½ }	{ 3½ 6½ }	
	Tangail ...	Nil	{ 3½ 5½ }	{ 3½ 5½ }	
	Netrakona ...	Nil	4½	{ 4½ 6½ }	
	Kishorganj...	Nil	{ 5 6½ }	{ 4½ 5½ }	

(n) Not reported.

\* Burma rice.

† New.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 5 6½	{ 4½ 6½	Effects of weather are favourable to crops. Harvesting of <i>aman</i> paddy continues. Prospects are fair. Fodder is sufficient.
	Goalundo ...	Nil	{ 6	{ 5½ 6	
	Madaripur ...	Nil	{ 5 5½	{ 5 5½	
	Gopalganj(a)	Nil	{ 5½ 6	{ 5½ 6	
24	BAKARGANJ (BARISAL).	Nil	{ 3½ 6	{ 4 6	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	{ 4 6	{ 3½ 6	
	Patuakhali ...	Nil	{ 4 6½	{ 4 5½	
	Dakshin Shahazpur (Bhola).	Nil	{ 3½ 4½	{ 3½ 4½	
25	CHITTAGONG	Nil	{ 6½ 6½	{ 6½ 7½	Cultivation of <i>rabi</i> crops and harvesting of <i>aman</i> paddy are in progress. <i>Panga</i> salt is selling at 10 and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 6½ 6½	{ 6½ 6	
26	TIPPERA (COMILLA).	Nil	{ 6½ 7½	{ 6½ 7½	Prospects of <i>aman</i> paddy are good and those of <i>rabi</i> crops are fair. Harvesting of <i>aman</i> paddy continues. Sowing of <i>rabi</i> is not yet finished.
	Brahmanbaria.	Nil	{ 6½ 7½	{ 6½ 7½	
	Chandpur ...	Nil	{ 6½ 6½	{ 6½ 6½	
27	NOAKHALI ...	Nil	5	5½	Prospects of standing crops are fair. Fodder is sufficient. Cattle-disease is reported from thana Chhagalnaya.
	Feni ...	Nil	7½	(n)	
28	CHITTAGONG HILL TRACTS.	Nil	{ 5 6½	{ 5 6½	Prospects of <i>aman</i> paddy are fair. Harvesting of cotton crop and cultivation for <i>rabi</i> crops continue. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

\* Burma rice.

† Local rice.

‡ Aus rice.

§ Now.

(n) Not reported.

J. C. ROY,

for Director of Agriculture, Bengal.

DACCA, the 7th December 1919.



## IRRIGATION DEPARTMENT, BENGAL.

**Abstract Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of October 1919, as compared with the corresponding month of the previous year.**

Canals.	1919-20.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	4,943	48,226	1,825	9,379	3,043	25,281
Hijili Tidal Canal ...	10,809	69,752	292	2,854	7,244	53,979
<b>Total</b> ...	<b>15,752</b>	<b>117,978</b>	<b>2,117</b>	<b>12,233</b>	<b>10,287</b>	<b>79,260</b>
<b>II.—Minor Works and Navigation</b>						
Calcutta and Eastern Canals ...	45,766	262,400	1,460	8,840	26,769	1,64,810
Tolly's Nala ...	15,226	118,208	23,100	99,427	5,216	40,701
Madaripur Bheel ...	142,986	823,565	6,618	7,669	36,804	1,93,375
<b>Total</b> ...	<b>203,978</b>	<b>1,204,173</b>	<b>31,178</b>	<b>115,936</b>	<b>68,789</b>	<b>3,98,886</b>
Magrahat Channels...	5,409	40,082	100	100	1,681	13,547
Orissa Coast Canal ...	4,102	28,574	1,818	4,393	1,182	8,089
Nadia Rivers ...	4,063	30,051	129,700	561,393	1,154	6,582
<b>GRAND TOTAL</b> ...	<b>217,552</b>	<b>1,302,880</b>	<b>162,796</b>	<b>681,822</b>	<b>72,806</b>	<b>4,27,104</b>

Canals.	1918-19.					
	WEIGHT OF CARGO.		RAFTS.		TOLLAGE.	
	During the month.	To end of the month.	During the month.	To end of the month.	During the month.	To end of the month.
<b>I.—Major Works.</b>	Tons.	Tons.	No.	No.	Rs.	Rs.
Midnapore Canal ...	6,423	58,501	45	4,445	3,493	33,953
Hijili Tidal Canal ...	7,550	51,114	77	1,279	6,187	45,069
<b>Total</b> ...	<b>13,973</b>	<b>109,615</b>	<b>122</b>	<b>5,724</b>	<b>9,680</b>	<b>79,022</b>
<b>II.—Minor Works and Navigation.</b>						
Calcutta and Eastern Canals ...	53,033	296,964	1,650	14,895	29,716	1,78,813
Tolly's Nala ...	27,390	130,027	6,200	46,772	9,477	46,170
Madaripur Bheel ...	168,845	1,019,423	6,405	7,436	41,726	2,28,618
<b>Total</b> ...	<b>249,268</b>	<b>1,446,414</b>	<b>14,255</b>	<b>69,103</b>	<b>80,919</b>	<b>4,53,601</b>
Magrahat Channels ...	7,055	31,897	...	...	2,594	15,186
Orissa Coast Canal ...	3,810	25,470	957	6,774	1,522	9,156
Nadia Rivers ...	8,316	55,201	92,340	473,107	1,967	11,987
<b>GRAND TOTAL</b> ...	<b>268,449</b>	<b>1,558,982</b>	<b>107,552</b>	<b>548,984</b>	<b>87,002</b>	<b>4,89,929</b>

CALCUTTA,  
The 9th December 1919.

G. J. ST. O. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffic on the Olden and Eastern Canals for the week ending Saturday, the 6th December 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 6TH DECEMBER 1919.			WEEK ENDING SATURDAY, THE 7TH DECEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	1,095	44,535	725	974	131,230	2,344
Jute ...	243	92,203 <sup>0</sup>	1,097	155	80,167 <sup>+</sup>	899
Firewood ...	64	34,525	509	74	38,175	567
Other articles ...	678	1,74,287	2,040	756	171,532	2,405
Total ...	2,080	3,45,550	4,371	1,959	421,104	6,215
Empty boats and rafts ...	420	...	1,205	657	...	1,541
GRAND TOTAL	2,500	3,45,550	5,576	2,616	421,104	7,756

Mds.  
 \* Weight by canal measurement ... 101,737<sup>4</sup>  
 Ditto ditto ... 88,103<sup>4</sup>

CALCUTTA,  
 The 9th December 1919.

G. J. ST. C. SEDGLEY,  
 Under-Secy. to the Govt. of Bengal.

*Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 22nd November 1919.*

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 6 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
16th Nov.	57.6	...	...	12—10	57.5	57.7	F. T. at 12-20.
17th "	57.7	6—30	57.8	13—55	57.1	57.3	K. T. at 6-35, and F. T. at 14-15.
18th "	57.45	7—15	57.5	16—0	56.8 <sup>0</sup>	56.95	E. T. at 7-30 and F. T. at 16-10.
19th "	57.0	8—0	57.3	16—50	56.45	56.45	E. T. at 8-10 and F. T. at 17-5.
20th "	56.9	8—45	57.2	17—30	56.28	56.34	E. T. at 9, and F. T. at 17-40.
21st "	56.75	9—20	57.15	...	...	56.3	E. T. at 9-22.
22nd "	56.6	10—10	57.3	...	...	56.5	E. T. at 10-30.

*Notable high and low water-levels of previous years.*

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	67.86	
1st "	1911	...	...	...	68.46	
13th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	67.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	Taken at low tide.
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.30	
15th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
 The 26th November 1919.

W. J. KERR,  
 Executive Engr., Dacca Division.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 29th November 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
23rd November ...	8 A.M.	Zero of gauge is at mean sea level.	42.55	40.81	B. M. on College step corrected, 64.93.
24th " ...	8 "		42.40	40.71	
25th " ...	8 "		42.30	40.61	
26th " ...	8 "		42.15	40.51	
27th " ...	8 "		42.05	40.46	
28th " ...	8 "		41.90	40.36	
29th " ...	8 "		41.75	40.31	

(a) P. W. D. datum 6.26 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year ...	Highest water-level ...	66.52 on 30th August 1918	...	61.71
Ditto ...	Lowest " ...	41.70 on 21st April 1918	...	36.89
Record ...	Highest " ...	69.25 on 26th August 1879	...	64.44
Do. ...	Ditto " ...	69.08 on 9th September 1885	...	64.27
Do. ...	Ditto " ...	68.30 on 25th August 1906	...	63.47
Do. ...	Ditto " ...	68.21 on 26th August 1890	...	68.40
Do. ...	Lowest " ...	37.68 on 25th April 1884	...	32.82
Do. ...	Ditto " ...	38.18 on 14th-16th April 1883	...	33.82
Do. ...	Ditto " ...	39.02 on 21st-22nd April 1897	...	34.21
Do. ...	Ditto " ...	39.28 on 6th-7th May 1906	...	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,  
The 29th November 1919.

M. SENGUPTA,  
Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 29th November 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
23rd November	7 A.M.	12.5	12.5	11.6	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
24th " ...	7 "	12.5	12.5	11.5	
25th " ...	7 "	12.3	12.3	11.2	
26th " ...	7 "	12.2	12.2	10.9	
27th " ...	7 "	12.0	12.0	10.5	
28th " ...	7 "	11.8	11.8	10.3	
29th " ...	7 "	11.6	11.6	10.2	

The previous year ...	Highest water-level ...	25.2 on 1st September 1918.
Ditto ...	Lowest " ...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges) ...	Highest " ...	26.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges) ...	Ditto " ...	25.74 on 30th and 31st August 1893.
Record (H.F. in Brahmaputra and Ganges) ...	Ditto " ...	25.66 on 15th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only) ...	Ditto " ...	25.66 on 31st July 1900
Do. ...	Lowest " ...	1.0 on 8th February 1914.
Do. ...	Ditto " ...	2.42 on 18th March 1908.
Do. ...	Ditto " ...	2.91 on 21st to 24th February and 6th to 9th March 1884.
Do. ...	Ditto " ...	3.16 on 9th to 11th March 1885.
Do. ...	Ditto " ...	3.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,  
The 29th November 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 17, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## RESOLUTION ON THE ANNUAL IRRIGATION REVENUE REPORT FOR THE YEAR 1918-19.

### GOVERNMENT OF BENGAL

#### IRRIGATION DEPARTMENT.

CALCUTTA, THE 11TH DECEMBER 1919.

#### RESOLUTION—No. 5339/.

READ—

The Annual Irrigation Revenue Report for the year 1918-19.

**The Major Irrigation Works** in Bengal are the Midnapore and Hijli Tidal Canals. The works are in operation. The **Minor Works** for navigation are the Calcutta and Eastern Canals, the Madaripur Bil Route, a portion of the Orissa Coast Canal, the Nadia Rivers and the Gaighatta and Baxi khal. The only irrigation work of this class is the Eden Canal. Training works on the rivers Ganges, Bhagirathi, Dhaleswari and Buriganga and anti-malarial drainage works carried out by this department at the cost of Government are classed under this head.



2. The capital outlay on the Major Works to the end of March 1919 amounted to Rs. 1,11,14,189. The works constructed for this outlay comprise two weirs across the Cossye River at Midnapore and at Panchkura and 98.75 miles of main and branch canals, of which 69.75 miles provide for both irrigation and navigation and 29 miles for navigation only; there are in addition 254.5 miles of distributaries. The Terapakia Pass khal, Palaboni khal and the khal leading to the Gewankhali Lock entrance, of which the aggregate length is 20.75 miles, are also maintained for navigation and included as part of the Hijli Tidal Canal. During the year under review no addition was made to the length of the canals or distributaries.

3. The total receipts from the Major Works amounted to Rs. 3,04,605 and the working expenses to Rs. 2,42,463, the result being a net revenue of Rs. 62,142 against Rs. 97,363 in the preceding year. This result is chiefly due to the increase in working expenses of the Hijli Tidal Canal consequent on the silt clearance of Range I, for which purpose the canal had to be closed to traffic for about a month and a half. The general revenues of these canals, which depend considerably upon receipts from navigation, have suffered of late years from railway competition. During the year under review there was, however, some increase in navigation receipts due to the diversion, as in the previous year, of traffic from the railway to the canals owing to restriction on rail-borne goods traffic due to causes arising out of the war.

4. The area irrigated during the year was 80,749 acres as compared with 87,507 acres in 1917-18, and an average of 85,661 acres for the triennium ending March 1918. The decrease was due to seasonable and well distributed rainfall at the commencement of the kharif season.

5. The capital outlay on canals classed as **Minor Works and Navigation** was Rs. 4,02,781 during the year and Rs. 1,41,45,885 to end of the year. The receipts for the year amounted to Rs. 8,87,323 and the working expenses to Rs. 5,72,777.

The financial results of the year and the capital expenditure to date are exhibited in the following statement :—

	CAPITAL EXPENDITURE, DIRECT AND INDIRECT.		Receipts of the year less refunds.	Expenditure of the year less refunds.	Net revenue of the year.	Net revenue of the previous year.
	Of the year.	To end of the year.				
<i>Minor Works and Navigation.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Calcutta and Eastern Canals ...	64,884	97,33,054	4,75,974	3,81,911	94,063	—93,839
Madaripur Bil Route ...	3,37,897	43,59,793	3,50,251	80,367	2,69,884	2,63,058
Orissa Coast Canal ...	...	...	17,098	9,666	7,432	—17,119
Nadia Rivers ...	...	...	19,950	48,074	—28,124	—82,510
Gaighatta and Baxi Khal ...	...	...	1,450	459	991	2,387
Eden Canal ...	...	...	22,600	52,101	—29,501	9,557
Grand Trunk Canal ...	...	53,088	...	...	...	...
Total ...	4,02,781	1,41,45,885	8,87,323	5,72,578	3,14,745	81,534

6. **The Calcutta and Eastern Canals** form a series of navigable channels mostly natural but partly artificial, by which communication is maintained between Calcutta and Eastern Bengal. The receipts from navigation tolls amounted to Rs. 4,53,867 as compared with Rs. 3,46,216 in the preceding year. The capital outlay incurred during the year was expended principally, as in the three previous years, on the improvement of the Gabkhan-Bharani khal from Chowkighatta to Jhalakati, which was completed during the year at a total cost of Rs. 7,36,535 for works only. This channel which has been improved in order to avoid the tortuous and dangerous route *via* the Angeria khal, will now form a link in the main route for steamers between Khulna and Barisal. Capital expenditure was also incurred during the year on the excavation of the Kankrabunia khal in the western Sundarbans, which, when



completed, will serve as an alternative to the Doaga Channel which is rapidly dying.

7. The capital expenditure during the year on the **Madaripur Bil Route**, which connects the Madhumati and Kumar rivers in the district of Faridpur, was incurred chiefly on (1) the improvement of the Lower Kumar river, including easing bends therein, and (2) the construction of an embankment with sluices along the south bank of the channel. The completion report of the project received the approval of the Secretary of State in June 1919. The construction estimate has been closed with effect from the 31st March 1917. These works paid a return of 6·9 per cent. in 1916-17, 6·5 per cent. in 1917-18, and 6·2 per cent. in 1918-19. No less than 5,880 steamers and flats made use of this route during the year under review transporting 424 lakhs of maunds of cargo.

8. **The Orissa Coast Canal** in conjunction with the Hijli Tidal Canal affords communication between Bengal and Orissa, and previous to the opening of the Bengal-Nagpur Railway was the only inland route by which supplies of food could be conveyed into Orissa in time of famine. This canal, which is intended for navigation only, now lies partly (*i.e.*, for a length of 45 miles) in this presidency and partly in the province of Bihar and Orissa. The receipts and working expenses (direct and indirect) for the portion within Bengal were, respectively, Rs. 17,098 and Rs. 9,666 as against Rs. 14,587 and Rs. 31,706 in the year 1917-18. The increased receipts were due to the diversion of railway traffic to the canal. The decrease in working expenses was due to the fact that no extensive repairs to the locks, etc., were necessary during the year.

9. The work in the **Nadia Rivers** consists in the training of the river channels by bandals with the two-fold object of maintaining by the scouring of shoals a sufficient depth of water for boat traffic and at the same time improving the sanitation of the country. The former object is only partially attained, but the work done is of use in the interests of sanitation. The committee appointed in February 1917 to consider the report on the Nadia Rivers submitted by Major F. C. Hirst, I.A., Director of Surveys, Bengal, and to advise Government upon the steps to be taken to carry out systematic observations of the changes in the Nadia Rivers, and also, if possible, to improve their condition as navigable channels and as feeders for the Lower Hooghly, have since submitted their report; and it is now before Government. The receipts and working expenses of the Nadia Rivers were Rs. 19,950 and Rs. 48,074, respectively, as against Rs. 16,667 and Rs. 99,187 in the preceding year. Though there has been a slight increase in receipts during the year, it is not likely that, with the growth of railway lines on either bank of the Bhagirathi, and the continued inefficiency of these rivers for the purpose of navigation, in addition to reduction in the rates of tollage from 1906, this system will ever pay its working expenses.

10. **The Gaighatta and Baxi Khal** is a short channel connecting the rivers Damodar and Rupnarain. A sum of Rs. 459 was spent during the year on the upkeep of the khal. The collection of tolls on boat traffic was leased out for two years, from 1st April 1917 to 31st March 1919 at a rental of Rs. 3,400 per annum. Owing to restricted boat navigation during the year on account of the silted up condition of the channel, a remission of rent had to be granted to the lessee, and the rent realised amounted to Rs. 1,450 only.

11. **The Eden Canal** was originally constructed for sanitary reasons, but it is now used to some extent for irrigation. It was worked during the year at a loss of Rs. 29,501, against a profit of Rs. 9,557 in the preceding year. This was due to a decrease in the area irrigated during the year, and to an increase in the cost of maintaining the canal including the cost of new works taken up and completed.

12. The work in connection with **the Improvement of the Bidyadhari River** by creating a spill reservoir for the flood tide was in progress during the year. The operations already undertaken have proved satisfactory; and it is expected that the continuation and extension of the operations will



effect further improvement by which the life of the river will probably be prolonged for a number of years.

13. Surveys were continued during the year in connection with projects for mitigating the effects of the Damodar floods, and the following works besides those dealt with in the last year's resolution were started with that object in view :—

- (a) the improvement of the Hoorhoora khal,
- (b) the improvement of the Uchchi Nala as a drainage outfall,
- (c) the raising of the embankments on the south of the Ajai River, and
- (d) the raising of the Damodar left embankment.

Investigations were carried out in connection with storage reservoirs in the basin of the Damodar and Barakar Rivers. Surveys were also carried out in connection with the proposed Damodar canal project.

14. (i) **Training works** were, as usual, carried out in the Dhaleswari and Buriganga rivers to facilitate navigation and to improve the water-supply of the town of Dacca. Dredging operations were also carried out on the off-take (from the Jamuna) of the Dhaleswari River. These dredging operations were started on the 8th November 1918, but had to be stopped on the 28th December 1918 owing to the possibility that the dredger "Foyers" might be shut in by the falling river. These operations were successful to a certain extent, the result being an increased flow of water in the Dhaleswari river throughout the cold and hot weather seasons.

Spurs were also erected in the Buriganga with the object of deflecting the current to the right bank of the river and inducing a greater flow through the Ati khal. The results proved satisfactory.

(ii) Training works were carried out also during the year through the agency of the India General Navigation and Railway Company, Ltd., on the river Ganges between Rajmahal and Goalundo.

(iii) To improve navigation as well as the sanitary conditions and water supply of the town of Rampur Boalia, training works were carried out on the inner channel of the river Ganges.

(iv) At the mouth of the Bhagirathi River, at its off-take from the Ganges, no dredging operations were done during the year owing to adverse circumstances; endeavours were made to improve the channel by means of bandalling only, so as to improve sanitary conditions by an increased flow in the river. The operations were not successful.

15. **General.**—The most important problems with which the Irrigation Branch of the Public Works Department in Bengal have to deal are not connected with irrigation properly so called, but are mainly of a sanitary character, or are in connection with navigation or works of protection against floods. The work of the branch may be divided into (a) irrigation; (b) flood disposal and regulation, both tidal and non-tidal; (c) river training, both tidal and non-tidal; (d) drainage, both tidal and non-tidal; (e) anti-malarial drainage; and (f) navigation, open and closed canals for boats and inland steamers. The problems to be faced are of a very far-reaching character and affect practically the whole of Bengal, which is below the high flood-level of the network of rivers which intersect it. These rivers spill over their banks when in flood and irrigate large areas of rice, and deposit the suspended silt on the land, which acts both as a fertilizer and in building up the land itself. The problem which then arises is to regulate the water on the land, and to provide for its final drainage after the crop has matured; and the whole question is therefore one of irrigation combined with agricultural and sanitary drainage. As such rivers are apt to change their course, the natural channels become blocked both from natural and artificial causes, the areas submerged by flood become stagnant bils, and the whole country suffers from lack of proper irrigation and drainage. It is this side of the problem which requires special study and special engineering treatment for proper development. The solution of these problems depends to a very great extent on the



observations of land levels and the collection of accurate hydraulic data over very large areas.

The surveys started in October 1917 in connection with the conservancy of the rivers Dhaleswari and Buriganga were continued during the year, and the Executive Engineer placed on special duty for the purpose continued his investigations throughout the year. He has submitted certain projects which are now under consideration.

Investigations in connection with anti-malarial works into the drainage conditions over large areas in the districts of Jessore, Nadia, Khulna, Midnapore and the 24-Parganas were continued and valuable information obtained.

16. The Irrigation Department during the year was in charge of Mr. F. A. A. Cowley. The thanks of Government are due to him for the efficient conduct of the affairs of the department during the year and to Mr. Addams-Williams, C.I. E., Superintending Engineer on special duty, for his zeal and energy in the conduct of the enquiries into the drainage conditions in this presidency. The good work of other officers has also been noted by Government.

ORDER.—Ordered that a copy of this resolution be published in the *Calcutta Gazette* and that a copy thereof and of its accompaniments be submitted to the Government of India in the Public Works Department and circulated to other Governments and to all departments and officers of this Government as usual.

By order of the Governor in Council,

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of November 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	3 4 0	2 0 0	3 8 0	4 3 0	...
Chetla Hât ...	...	...	...	...	...	...	...
Burdwan ...	4 14 0	4 14 0	3 0 0	2 4 0	3 12 0	3 12 0	...
Kalna ...	...	...	...	...	...	...	...
Raipur ...	...	...	...	...	...	...	...
Midnapore ...	4 4 0	4 10 0	3 0 0	1 12 0 to 2 4 0	2 11 0	2 2 0	...
Chittagong ...	(c)	(c)	2 10 0	(c)	(c)	3 2 0	...
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	5 12 0	5 14 0	4 0 0	2 1 0	3 1 0	3 12 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	5 0 0	5 0 0	3 0 0	1 12 0	2 11 0	3 7 0	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	6 0 0	6 0 0	3 0 0	2 8 0	3 12 0	3 6 0	...

\* Figures not available.

(c) No sale.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	2 12 0	2 8 0	3 4 0	3 14 0	...
Chetla Hât ...	...	...	...	...	...	...	...
Burdwan ...	4 12 0	4 12 0	2 8 0	1 14 0	3 4 0	3 8 0	...
Kalna ...	...	...	...	...	...	...	...
Raipur ...	...	...	...	...	...	...	...
Midnapore ...	4 2 0	4 9 0	2 12 0	1 10 0 to 1 14 0	2 10 0	2 0 0	...
Chittagong ...	(c)	(c)	2 10 0	(c)	(c)	3 0 0	3 0 0
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	5 8 0	5 8 0	3 12 0	1 13 0	2 12 0	3 8 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 3 0	4 3 0	2 12 0	1 8 0	2 4 0	3 12 0	3 5 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	5 0 0	5 0 0	2 8 0	2 0 0	3 0 0	2 4 0	3 0 0

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of November 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 3 0	9 3 0	7 3 0	7 0 0	7 14 0	8 4 0	7 3 0
Obetta Hât ...	...	...	...	...	...	...	...
Burdwan ...	8 2 0	8 12 0	7 0 0	5 5 5	9 3 0	8 0 0	6 0 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0	10 0 0	6 3 0	5 0 0	6 0 0	7 3 0	5 3 0
Chittagong ...	12 0 0	12 0 0	8 0 0	7 0 0	8 3 0	10 0 0	10 0 0
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	10 3 0	10 0 0	8 0 0	5 0 0	6 12 0	7 4 0	6 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 0 0	9 0 0	7 0 0	6 0 0	5 0 0	8 0 0	8 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	12 0 0	12 0 0	7 0 0	6 0 0	7 4 0	7 12 0	7 4 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	5 12 0	5 0 0	6 3 0	7 3 0	6 3 0
Obetta Hât ...	...	...	...	...	...	...	...
Burdwan ...	6 3 0 to 7 0 0.	7 10 0	5 5 0	3 3 0	4 0 0	5 3 0	4 12 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 3 0	5 12 0	5 0 0	3 3 0 to 4 2 0	5 4 0	5 7 0	5 0 0
Chittagong ...	6 0 0	6 3 0	5 0 0	3 10 0	5 0 0	5 4 0	5 0 0
Ohandpur ...	...	...	...	...	...	...	...
Dacca ...	9 0 0	8 14 0	7 12 0	4 0 0	5 12 0	6 3 0	5 10 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 11 0	7 0 0	5 2 0	4 4 0	5 4 0	5 12 0	5 5 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 12 0	10 12 0	5 5 0	4 10 0	5 12 0	7 0 0	6 0 0



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of November 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 8 0	8 8 0	7 4 0	5 0 0	4 14 0	5 2 0	5 12 0
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	7 12 0	7 12 0	(a)	5 4 0	6 0 0	5 12 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 8 0	8 8 0	8 8 0	5 12 0	5 0 0	6 0 0	...
Ohittagong ...	...	...	...	...	...	...	...
Obandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Karayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	6 11 0	6 11 0	...	4 0 0	3 12 0	5 4 0	3 12 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	7 0 0	7 1 0	6 0 0	5 2 0	5 8 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 8 0	8 8 0	8 12 0	5 0 0	5 0 0	5 14 0	...
Chota Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	8 0 0	10 8 0	6 0 0	5 4 0	3 0 0	...
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	9 8 0 to 10 8 0	9 8 0 to 10 8 0	8 8 0 to 11 8 0	5 12 0	4 8 0	4 8 0	...
Ohittagong ...	...	...	...	...	...	...	...
Obandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Karayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	10 0 0	10 0 0	7 0 0	7 0 0	7 8 0	6 8 0	...

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the second-half of November 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	4 8 0	3 8 0	3 10 0	3 14 0	5 0 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	6 12 0 to 7 8 0	6 12 0	5 8 0	3 4 0	3 14 0	4 8 0	5 4 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0 to 9 4 0	8 0 0 to 9 4 0	5 12 0 to 7 0 0	3 14 0 to 4 8 0	4 8 0	4 10 0	...
Chittagong ...	8 4 0	8 4 0	5 12 0	4 8 0	5 0 0	5 8 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	7 0 0	7 0 0	7 0 0	5 4 0	7 10 0	7 0 0	...

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	6 12 0	5 0 0	5 4 0	5 8 0	6 0 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	9 12 0	9 12 0	7 8 0	4 8 0	5 0 0	6 0 0	6 2 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 0 0 to 12 0 0	11 0 0 to 12 0 0	8 0 0	5 0 0 to 6 8 0	6 8 0	7 8 0	...
Chittagong ...	11 8 0	11 8 0	7 12 0	7 0 0	7 0 0	7 8 0	7 8 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	9 0 0	10 0 0	8 0 0	4 12 0	6 0 0	7 0 0	6 12 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	12 0 0	12 0 0	8 0 0	6 0 0	6 0 0	6 0 0	6 8 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	7 0 0	5 0 0	7 8 0	6 12 0	6 4 0

(a) Not available.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts  
Bengal for the second-half of November 1919.**

Marts.	LINSEED.			MUSTARD.			GUN.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	58	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 2 0	7 3 0	12 8 0	12 8 0	8 8 0	10 8 0	9 8 0	8 8 0	25 0 0	25 0 0	23 0 0
Chittla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	11 0 0 to 12 0 0	11 0 0 to 12 0 0	(a).....	13 0 0 to 14 8 0	13 0 0 to 14 8 0	12 8 0	6 0 0 to 8 0 0	6 0 0 to 8 0 0	8 8 0	(a).....	(a).....	(a).....
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	10 0 0	7 0 0	10 0 0	14 8 0 to 15 0 0	14 4 0 to 15 0 0	11 0 0 to 12 8 0	11 0 0	11 0 0	7 12 0	40 0 0	40 0 0	70 0 0
Obittagong	15 0 0	15 0 0	10 0 0	13 0 0	13 0 0	9 8 0	12 0 0	12 0 0	8 8 0	14 0 0	(b).....	(b).....
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	17 8 0	17 8 0	7 0 0	12 0 0	12 0 0	16 0 0	18 0 0	18 0 0	10 0 0	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Myemensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	15 0 0	15 0 0	8 0 0	13 8 0	13 8 0	11 0 0	10 10 0	10 10 0	8 0 0	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	(a).....	(a).....	.....	13 0 0	14 0 0	7 8 0	13 0 0	13 0 0	8 0 0	.....	.....	.....

Marts.	JUTE.			GRAM.			HIDES (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	12 0 0	78 0 0	78 0 0	78 0 0	450 0 0	450 0 0	450 0 0
Chittla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	(a).....	92 0 0	75 0 0	65 0 0	(a).....	(a).....	40 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baniganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	5 4 0	6 0 0	8 0 0	85 0 0 to 95 0 0	80 0 0 to 88 0 0	75 0 0 to 80 0 0	450 0 0	425 0 0	275 0 0
Obittagong	.....	.....	.....	90 0 0	90 0 0	75 0 0	425 0 0	400 0 0	250 0 0
Chandpur	3 8 0 to 10 8 0	3 8 0 to 12 0 0	5 12 0 to 9 8 0	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	78 0 0	80 0 0	64 0 0	.....	.....	.....
Narayanganj	4 0 0 to 8 0 0	5 0 0 to 9 0 0	7 0 0 to 11 0 0	.....	.....	.....	.....	.....	.....
Myemensingh	4 0 0 to 10 0 0	5 0 0 to 12 0 0	6 0 0 to 10 0 0	.....	.....	.....	.....	.....	.....
Madaripur	3 12 0 to 11 4 0	3 8 0 to 12 4 0	3 0 0 to 11 0 0	.....	.....	.....	.....	.....	.....
Pabna	.....	.....	.....	76 0 0	76 0 0	107 0 0	.....	.....	.....
Sirajganj	4 0 0 to 8 0 0	4 8 0 to 7 0 0	5 0 0 to 9 0 0	.....	.....	.....	.....	.....	.....
Rangpur	8 0 0	8 0 0	8 0 0	72 0 0	75 0 0	65 0 0	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0

(a) Not available.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of November 1919.**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 0 0	9 0 0	25 0 0	3 6 0	3 6 0	3 12 0	3 15 0(a)	3 13 0(a)	2 2 0
Chella Hat	...	...	...	...	...	...	...	...	...
Burdwan	16 8 0	16 0 0	12 0 0 to 25 0 0	3 2 0	3 8 0	3 8 0	3 2 0(b)	3 2 0(b)	3 3 9
Kalna	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...
Midnapore	3 0 0 to 15 0 0	3 0 0 to 16 0 0	3 0 0 to 20 0 0	3 10 0	3 10 0	3 10 0	4 2 0(d)	4 2 0(d)	4 3 0
Chittagong	20 0 0	20 0 0	23 0 0	4 0 0	4 10 0	3 8 0	3 0 0(e)	3 0 0(e)	2 6 0
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	...	...	...	4 0 0	4 8 0	4 4 0	4 2 0(d)	4 1 0(d)	4 8 0
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Maderipur	...	...	...	...	...	...	...	...	...
Pabna	16 0 0 to 18 0 0	16 0 0 to 18 0 0	20 0 0 to 24 0 0	4 0 0	4 0 0	4 0 0	4 3 0(d)	4 3 0(d)	3 14 0
Sirajganj	...	...	...	...	...	...	...	...	...
Bangpur	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 8 0	4 4 0(A)	4 4 0(A)	4 10 0

(a) Monkey brand. | (b) Rising Sun. | (c) Mosque. | (d) Elephant. | (A) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	25 0 0	25 0 0	25 0 0	0 8 0	0 8 0	1 0 0	...	...	...
Chella Hat	...	...	...	...	...	...	0 8 0	0 8 0	0 8 0
Burdwan	24 0 0	24 0 0	20 0 0	0 8 0	0 8 0	0 8 8	0 7 8	0 7 0	0 8 0
Kalna	...	...	...	...	...	...	0 9 0	0 9 0	0 8 0
Raniganj	...	...	...	...	...	...	0 1 8	0 1 8	0 2 3
Midnapore	40 0 0 to 41 0 0	38 0 0 to 40 0 0	38 0 0	0 7 0	0 7 0	0 7 0	...	...	...
Chittagong	40 0 0	40 0 0	38 0 0	...	...	...	...	...	...
Chandpur	...	...	...	...	...	...	...	...	...
Dacca	29 0 0	29 8 0	23 0 0	...	...	...	...	...	...
Narayanganj	...	...	...	...	...	...	...	...	...
Mymensingh	...	...	...	...	...	...	...	...	...
Maderipur	...	...	...	...	...	...	...	...	...
Pabna	38 0 0	41 0 0	29 0 0	...	...	...	...	...	...
Sirajganj	...	...	...	...	...	...	...	...	...
Bangpur	40 0 0	40 0 0	25 0 0	...	...	...	...	...	...

DACCA,  
The 9th December 1919.

J. C. ROY,  
for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of November 1919.**

Division Number.	Districts and Manys.	QUANTITY PER RUPEE IN HEMDS OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR THUR. OADMAN P'NA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
PRESIDENCY.	24-PARGANAH.		S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	P. CH.	S. CH.	S. CH.	S. CH.	S. CH.
	1 Chota HAT ...	4 9	4 9	6 8	5 0	5 0	6 8	4 9	4 9	4 9	4 9	4 0	4 9	10 10	10 10	10 10
	2 Magra HAT ...	5 11	5 1	3 14	5 12	5 5	7 8	(a)	(a)	(a)	3 10	3 5	4 12	10 12	10 12	11 8
	3 Calcutta-Bellaghata	4 12	4 12	6 10	6 6	6 6	8 0	4 7	4 7	4 7	4 0	4 0	5 14	10 0	10 0	10 0
	NADIA.															
	4 Goal ...	5 11	5 0	6 7	5 6	5 5	7 4	3 4	3 4	4 0	3 4	3 4	4 0	13 0	13 0	10 8
	5 Ranaghat ...	4 8	4 8	6 12	5 12	5 3	7 4	3 2	3 2	5 4	3 5	3 5	5 4	10 5	10 5	9 8
	MUNSHIDABAD.															
	6 Berhampur ...	5 12	4 8	6 12	6 0	4 12	7 0	5 0	4 0	3 0	4 0	4 0	5 4	13 0	13 0	9 8
	7 Kendi ...	5 0	5 6	8 0	5 12	5 6	8 4	4 4	3 3	4 0	4 0	4 0	5 3	10 5	10 5	9 4
	8 Jangipur ...	5 8	5 3	7 3	5 3	6 0	8 0	3 3	3 3	...	3 3	3 3	7 0	13 0	13 0	8 8
	JHONKE.															
	9 Sadar ...	6 0	5 8	7 0	6 6	5 12	8 0	2 9	3 4	6 0	3 0	3 4	5 0	11 4	11 4	10 8
	10 Bangson ...	4 3	4 0	6 10	5 15	5 11	7 0	2 11	2 11	4 0	3 9	3 9	4 15	11 4	11 4	11 4
	KHULNA.															
	11 Sadar ...	4 4	4 14	8 0	4 4	4 14	8 4	3 3	3 3	7 3	3 3	3 3	4 3	10 4	9 0	9 0
	12 Bagerhat ...	5 4	5 4	5 2	5 10	5 10	6 0	5 0	5 0	5 4	3 10	3 10	5 4	9 0	9 0	9 0
	BURDWAN.															
	13 Sadar ...	5 0	4 10	7 8	5 3	5 0	8 0	4 3	4 3	3 12	3 12	3 12	5 0	10 3	10 3	10 10
	14 Kalna ...	4 9	4 8	7 0	4 12	5 2	7 4	3 10	3 9	6 8	3 10	3 5	5 3	10 0	11 0	10 5
	BIRBHUM.															
	15 Suri ...	6 12	5 4	6 12	7 0	5 3	7 3	6 0	4 3	4 0	3 3	3 4	5 0	12 0	11 0	10 0
	16 Rampur HAT ...	6 0	5 0	7 0	7 0	6 0	7 3	6 0	6 0	4 0	3 3	3 3	5 3	10 0	11 0	11 0
	BANKURA.															
	17 Sadar ...	5 4	5 3	7 3	5 3	5 12	8 0	5 3	5 3	3 12	4 0	4 0	5 0	11 0	11 0	10 8
	18 Vishnupur ...	6 3	5 0	7 0	7 4	5 3	8 0	4 4	4 0	5 0	3 4	3 3	5 0	10 3	10 3	9 0
	MIDNAPORE.															
	19 Sadar ...	6 0	4 11	8 1	6 5	5 0	8 6	3 4	3 4	4 0	3 4	3 4	4 0	10 0	10 0	9 8
	20 Contal ...	4 5	4 12	7 3	5 3	5 0	8 0	3 0	3 0	7 3	3 0	3 0	7 0	12 0	11 3	10 0
	HOOGHLY.															
	21 Sadar ...	4 3	4 4	6 3	5 0	5 0	7 0	4 0	4 0	3 3	3 3	4 0	5 0	10 12	10 3	11 3
	22 Arambagh ...	5 12	5 12	7 3	6 0	6 0	7 10	3 4	3 4	4 0	3 4	3 9	5 0	10 10	10 10	9 0
	HOWRAH.															
	23 Sadar ...	5 4	5 4	5 0	6 0	6 0	6 3	4 3	4 3	4 0	4 0	4 0	5 0	11 0	11 0	11 5
	24 Ulubaria ...	4 3	4 3	6 12	5 10	5 0	7 4	4 0	4 0	4 0	3 10	3 10	4 0	11 3	11 3	11 4
	RAJSHAHI.															
RAJSHAHI.	25 Rampur-Bollia ...	5 10	4 10	5 4	6 0	4 12	8 0	4 3	4 0	5 4	3 3	4 0	5 4	9 13	9 13	8 0
	26 Nator ...	4 14	4 14	8 0	5 4	5 4	9 0	4 0	4 0	6 0	4 0	4 0	7 14	9 3	9 3	8 0
	27 Dinajpur-Railway Bazar HAT.	4 12	4 12	7 12	5 2	5 2	6 6	3 13	3 13	4 12	3 3	3 3	5 6	10 0	10 0	8 0
	28 Jalpalguri-Sadar ...	4 4	4 4	8 0	5 0	5 0	8 3	4 0	4 0	5 4	3 12	3 12	5 4	9 3	9 3	8 0

\* Karkelch.

(a) Not available.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of November 1919—*continued*.**

DIVISION.	Number.	DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SEARS OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURK. OADJAN PRA ( <i>Cajanus indicus</i> ).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
			S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
RAJBHARI.		DANJELING.															
	29	Sadar ...	3 12	3 12	5 4	4 8	4 8	8 0	2 12	2 12	4 0	2 12	2 12	4 0	8 0	8 0	8 8
	30	Biliguri ...	4 8	4 8	9 0	5 0	5 8	9 0	3 8	3 8	7 8	3 8	3 8	8 0	8 0	8 0	8 0
		RANOPUR.															
	31	Sadar ...	3 6	3 6	7 0	4 4	4 4	8 0	3 12	3 12	4 8	3 0	3 0	5 0	9 0	8 0	8 0
	32	Nilphamari ...	4 0	4 7	8 0	5 0	4 11	8 8	4 0	4 0	8 12	3 8	3 8	5 2	10 0	9 12	8 0
	33	Bogra—Sadar ...	5 12	3 6	8 8	8 4	3 14	8 10	3 9	3 9	6 0	3 9	3 9	4 8	9 12	9 12	10 8
		PABNA.															
	34	Sadar ...	5 4	5 4	7 8	5 8	5 8	8 8	3 14	3 14	...	2 0	2 0	5 0	11 8	11 8	8 4
	35	Birgaonj ...	4 4	4 4	6 12	4 8	4 12	7 12	4 0	4 0	6 0	3 8	3 8	6 0	8 0	8 0	8 0
DACCA.		MALDA.															
	36	Sadar ...	4 12	4 8	8 0	6 0	5 0	...	5 0	5 0	5 0	3 8	4 0	5 0	12 0	11 8	8 8
	37	Balla—Nawabganj ...	4 12	4 12	9 0	6 0	6 0	10 0	5 0	5 0	5 8	3 8	3 8	...	11 8	11 8	8 8
		DACCA.															
	38	Sadar ...	4 8	4 8	6 2	5 8	6 0	6 12	4 0	4 0	2 12	4 0	4 0	4 8	10 0	8 8	9 0
	39	Munshir Hat ...	4 8	5 4	6 12	4 8	5 4	6 8	(n)	(n)	(n)	(n)	4 0	(n)	9 0	9 0	8 0
		MYMENSINGH.															
	40	Nasirabad ...	4 0	3 8	5 8	4 4	4 0	8 0	4 0	4 0	8 0	4 0	4 0	5 4	9 0	9 0	8 0
	41	Netrokona ...	4 8	4 10	8 0	6 6	6 4	8 8	5 4	5 8	8 8	3 8	3 8	6 8	10 0	10 0	8 0
		FARIDPUR.															
CHITTAGONG.	42	Sadar ...	4 12	4 8	6 12	5 0	4 12	7 8	4 0	4 4	4 0	3 0	4 0	4 4	9 8	9 10	8 0
	43	Rajbari ...	5 8	5 1	8 4	5 12	5 8	8 12	4 0	4 3	4 0	3 3	3 3	4 0	10 0	10 0	8 0
		BAKARGANJ.															
	44	Barisal ...	4 0	4 0	6 2	4 4	4 4	6 11	5 4	5 2	4 9	3 4	3 2	4 9	9 4	9 4	8 0
	45	Pirojpur ...	3 12	3 8	7 0	3 14	3 12	7 0	4 0	4 8	...	(n)	(n)	4 12	8 0	8 0	8 8
		TIPPERA.															
	46	Oomilla ...	5 0	3 12	6 9	6 3	6 0	7 8	4 8	4 8	5 0	3 0	3 0	4 8	8 0	8 0	8 8
	47	Chandpur ...	3 14	4 8	5 0	5 4	5 8	6 8	3 10	3 10	5 2	3 4	3 6	6 4	8 8	8 8	9 1
		NOAKHALI.															
	48	Kaltara Hat ...	5 0	4 8	7 8	6 0	6 8	8 0	5 8	5 8	4 0	3 4	3 4	5 8	9 0	9 0	9 0
CHITTAGONG.	49	Pani Hat ...	5 12	4 8	7 12	7 0	6 0	8 12	5 0	5 0	8 0	(n)	(n)	(n)	8 0	8 0	9 2
		CHITTAGONG.															
	50	Sadar ...	6 8	6 0	8 0	7 0	7 0	8 8	4 0	4 0	4 0	3 12	3 12	5 0	10 0	8 0	10 0
	51	Cox's Bazar ...	6 8	6 0	10 0	(n)	(n)	1 0	4 0	4 0	4 0	3 4	3 4	4 0	9 0	8 0	8 0
	52	Chittagong Hill Tracts—Itanagarati.	5 0	5 0	8 0	6 0	6 8	7 0	4 0	4 0	3 4	3 0	3 0	4 8	8 0	8 0	8 0

\* Karkatch.

(n) Not available.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA;  
The 9th December 1919.



## IRRIGATION DEPART

**Statement showing heights over mean sea-level and low water in the October 1919, and the highest reading of each gauge over**

## RIVER GANGES.

Date.	Mirzapore. Zero of gauge 206'22 ft.		Benares. Zero of gauge 198'80 ft.		Buxar. Zero of gauge 167'55 ft.		Dinapore. Zero of gauge 124'22 ft.		Monghyr. Zero of gauge 101'83 ft.(a)		
	Distance in miles.	From Allahabad 86.	From Allahabad 124.	From Mirzapur 48.	From Benares 90.	From Benares 177.	From Buxar 67.	From Benares 227.	From Dinapore 110.		
	Highest gauge reading.	2nd September 1916. 265'47.	2nd September 1916. 244'30.	3rd and 4th Septem- ber 1916. 209'30.	5th September 1901. 169'73.	5th September 1901. 129'60.					
	Lowest gauge reading.	28th June 1897. 187'30.	1st May 1877. 182'80.	10th to 14th May 1914. 160'80.	20th April 1913. 135'13.	29th April to 6th May 1914. 98'00.					
		Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.		
1	2	3	4	5	6	7	8	9	10	11	12
1st	...	14'92	221'14	14'50	211'30	15'67	183'22	18'00	152'23	12'17	114'00
2nd	...	14'79	221'01	14'25	211'05	15'67	183'22	17'70	151'93	12'67	114'50
3rd	...	14'58	220'80	14'00	210'80	15'67	183'22	17'70	151'93	13'17	115'00
4th	...	14'42	220'64	14'00	210'80	15'50	183'05	17'60	151'83	12'97	114'80
5th	...	14'67	220'89	14'08	210'88	15'50	183'05	17'50	151'73	12'67	114'50
6th	...	15'83	222'05	14'00	210'80	15'58	183'13	17'40	151'63	12'67	114'50
7th	...	17'17	223'39	16'83	213'63	16'75	184'30	17'60	151'83	12'87	114'70
8th	...	16'92	223'14	17'17	213'97	17'75	185'30	18'70	152'93	13'17	115'00
9th	...	16'17	222'39	16'50	213'30	18'00	185'55	20'30	154'53	14'17	116'00
10th	...	15'50	221'72	16'83	212'63	17'50	185'05	20'60	154'83	14'47	116'30
11th	...	14'83	221'05	15'00	211'80	16'67	184'22	20'40	154'63	14'67	116'50
12th	...	14'08	220'30	14'33	211'13	16'00	183'55	19'60	153'83	14'47	116'30
13th	...	13'33	219'55	13'42	210'22	15'42	182'97	18'80	153'03	14'47	116'30
14th	...	12'83	219'05	12'83	209'53	15'17	182'72	18'10	152'33	14'17	116'00
15th	...	12'33	218'55	12'25	209'05	15'00	182'55	17'40	151'63	13'17	115'00
16th	...	12'00	218'22	11'92	208'72	14'67	182'22	17'00	151'23	12'47	114'30
17th	...	11'67	217'89	11'42	208'22	14'33	181'88	16'20	150'43	11'67	113'50
18th	...	11'33	217'55	11'17	207'97	14'00	181'55	16'20	150'43	11'47	113'30
19th	...	11'00	217'22	11'25	208'05	13'67	181'22	15'90	150'13	11'07	112'90
20th	...	10'67	216'89	10'42	207'22	12'17	179'72	15'60	149'83	10'67	112'50
21st	...	10'33	216'55	10'00	206'80	11'83	179'38	15'40	149'63	10'17	112'00
22nd	...	10'00	216'22	9'58	206'38	11'50	179'05	15'00	149'23	10'47	112'30
23rd	...	9'75	215'97	9'17	205'97	11'08	178'63	14'70	148'93	9'87	111'70
24th	...	9'58	215'80	9'00	205'80	10'67	178'22	14'70	148'93	9'47	111'30
25th	...	9'37	215'59	8'75	205'55	10'67	178'22	14'50	148'73	8'87	110'70
26th	...	9'21	215'43	8'50	205'30	10'58	178'13	13'10	147'33	8'47	110'30
27th	...	9'04	215'26	8'25	205'05	10'42	177'97	12'70	146'93	8'17	110'00
28th	...	8'92	215'14	8'08	204'88	10'00	177'55	12'70	146'93	7'77	109'60
29th	...	8'83	215'05	7'92	204'72	9'50	177'05	13'30	147'53	7'57	109'40
30th	...	8'79	215'01	7'75	204'55	9'50	177'05	13'20	147'43	8'17	110'00
31st	...	8'75	214'97	7'58	204'38	9'50	117'05	13'30	147'53	8'27	110'10

\* Now gauge fixed at Rajmahal from 1st June 1910 in place of the gauge at Sahelganj. The zero of gauge at Rajmahal 56'46 ft. above M.S.-L. from 10th February 1916 to 16th June 1918. From the 16th June 1918 to 6th April 1919 April 1919 it is 56'319 ft. above M.S.-L.

† To compare the reduced levels shown in these monthly printed statements before and after the 1st June 1903, 5'78 ft. October 1903).

(a) A new gauge fixed at Monghyr on 16th July 1914.

(b) From the 1st November 1916 the zero of gauge was 2'48 ft. above M.S.-L. Previous to that the zero was at M.S.-L. zero is 1'508 ft. above M.S.-L.

(c) From the 25th January 1914 to 4th April 1919 the zero of gauge at Berhampore was 80'99 ft. above M.S.-L. From

(d) From the 26th October 1916 a temporary wooden gauge with its zero at 49'00 ft. above M.S.-L. was erected at 3rd June 1919. From 4th June 1919 the zero is 1'51 ft. above M.S.-L.

(e) Gauge shifted from Sabik Goalundo to Pakirabad from 30th June 1919.

The 12th December 1919.



MENT, BENGAL.

rivers Ganges, Bhagirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge-reading since 1876.

						RIVER BHAGI- RATHI.		RIVER JALANGI.		RIVER BRAHMA- PUTRA.	
Rajmahal. Zero of gauge 58'310 ft.		Rampur-Boalia. Zero of gauge 1'61 ft. (d)		Gualundo. (e) Zero of gauge is at mean sea-level.		Berhampore. Zero of gauge 32'499 (c)		Serupganj. (b) Zero of gauge 1'009.		Gauhati. Zero of gauge 180'18 ft.	
From Benares 407.	From Mouhyr 120.	From Benares 471.	From Rajmahal 84.	From Benares 591.	From Rampur- Boalia 120.						
15th August 1912. 88'46.		26th August 1879. 69'35.		28th August 1906 and 14th Septem- ber 1915. 35'75.†		14th August 1890. 61'70.		25th September 1900. 35'03.		24th August 1906. 181'11.	
2nd May 1910. 54'69.		23rd April 1886. 37'63.		28th March 1910. 2'25.		19th to 24th April 1917. 32'40.		28th March 1915. 2'13.		9th February 1889. 142'65.	
Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
13	14	15	16	17	18	19	20	21	22	23	24
16'20	72'519	50'49	52'00	19'40	19'40	9'60	42'099	15'96	17'469	22'90	158'08
15'80	72'119	50'19	51'70	19'10	19'10	9'10	41'599	15'39	16'899	22'20	157'38
15'45	71'769	49'69	51'20	19'00	19'00	9'10	41'599	15'22	16'729	21'90	157'08
15'25	71'569	49'49	51'00	18'85	18'80	9'10	41'599	14'89	16'399	21'60	156'78
15'25	71'569	49'19	50'70	18'70	18'70	9'00	41'499	14'50	15'009	21'60	156'78
15'25	71'569	49'09	50'60	18'60	18'60	8'90	41'399	14'16	15'669	21'90	157'08
15'10	71'419	48'89	50'40	18'60	18'60	8'60	41'099	14'20	15'709	23'20	158'38
15'15	71'469	48'74	50'25	18'50	18'50	8'00	40'499	13'88	15'389	24'60	159'78
15'40	71'719	48'74	50'25	18'40	18'40	7'80	40'299	13'47	14'979	26'50	161'68
15'90	72'219	49'04	50'55	18'60	18'60	8'60	41'099	13'16	14'669	27'10	162'28
16'70	73'019	49'39	50'90	19'00	19'00	8'40	40'899	13'13	14'639	27'50	162'68
17'20	73'519	49'89	51'40	19'30	19'30	9'20	41'699	13'79	15'299	27'50	162'68
17'10	73'419	50'19	51'70	19'60	19'60	9'60	42'099	14'48	15'989	27'30	162'48
16'60	72'919	49'89	51'40	19'80	19'80	9'60	42'099	14'48	15'989	26'90	162'08
16'00	72'319	49'39	50'90	19'80	19'80	9'30	41'799	13'93	15'439	26'50	161'68
15'40	71'719	48'89	50'40	19'70	19'70	9'20	41'699	13'14	14'649	25'40	160'68
14'80	71'119	48'39	49'90	19'60	19'60	9'20	41'699	12'24	13'749	24'50	159'68
14'20	70'519	47'89	49'40	19'30	19'30	9'00	41'499	11'38	12'889	23'40	158'68
13'65	69'969	47'44	48'95	19'00	19'00	8'20	40'699	10'62	12'129	22'10	157'28
13'10	69'419	46'99	48'50	18'70	18'70	7'10	39'599	10'02	11'529	21'70	156'88
12'60	68'919	46'49	48'00	18'35	18'30	5'40	37'899	9'62	11'129	19'50	154'68
12'20	68'519	46'29	47'80	17'90	17'90	4'90	37'399	9'29	10'799	17'30	152'48
11'80	68'119	45'94	47'45	17'50	17'50	4'70	37'199	8'82	10'399	16'80	151'98
11'50	67'819	45'69	47'10	17'20	17'20	4'60	37'099	8'56	10'069	15'40	150'58
11'20	67'519	45'39	46'90	16'90	16'90	3'90	36'399	8'24	9'749	15'40	150'58
10'90	67'219	45'09	46'60	16'40	16'40	3'70	36'199	7'71	9'219	14'90	150'08
10'70	67'019	44'89	46'40	15'90	15'90	3'30	35'799	7'36	8'869	14'30	149'48
10'40	66'719	44'59	46'10	15'50	15'50	3'30	35'799	7'36	8'869	12'40	147'58
10'20	66'519	44'29	45'80	14'80	14'80	2'80	35'299	7'38	8'889	12'20	147'38
10'00	66'319	44'14	45'65	14'40	14'40	2'60	35'099	7'10	8'609	11'90	147'08
10'10	66'419	44'14	45'65	14'00	14'00	2'60	35'099	6'62	8'129	11'50	146'68

was 56'46 ft. above M.S.-L. up to 26th October 1915 and 60'00 ft. above M.S.-L. from 27th October 1915. The zero was again it was 54'81 ft. above M.S.-L., from 7th to 15th April 1919 it was 56'32 ft. above M.S.-L., and from 16th should be deducted from the former or added to the latter (vide Bengal Government letter No. 1088T.—I, dated the 12th

dating back 15th July 1897. Zero was at M.S.-L. from 1st April 1918 to 13th April 1919. Again from 14th April 1919 the 5th April 1919 the zero is 32'490 ft. above M.S.-L. Rampur-Boalia in place of the permanent gauge washed away. The zero of gauge was at M.S.-L. from 25th June 1918, till

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.



**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 29th November 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 5 P.M.	Remarks
		Time.	Readings.	Time.	Readings.		
1919.							
23rd Nov.	56.72	10—40	57.5	...	...	56.64	E. T. at 11-16.
24th "	56.50	11—18	57.35	6—20	56.4	56.5	F. T. at 9-30, and E. T. at 11-30.
25th "	56.30	11—50	57.18	7	56.3	56.72	F. T. at 7-10 and E. T. at 12.
26th "	56.4	12—20	57.0	7—35	56.3	56.7	F. T. at 7-45 and E. T. at 12-35.
27th "	56.3	12—55	56.9	8—12	56.3	56.7	F. T. at 8-25, and E. T. at 12-15.
28th "	56.0	12—25	56.8	8—45	56.25	56.1	F. T. at 8-35 and E. T. at 12-35.
29th "	55.48	14—0	56.2	9—30	55.2	55.6	F. T. at 9-40 and E. T. at 14-12.

**Notable high and low water-levels of previous years.**

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	67.86	
1st "	1911	...	...	...	68.46	
13th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	67.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	Taken at low tide.
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
13th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
22nd February	1915	...	...	...	50.80	
15th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA.

The 4th December 1919.

W. J. KERR.

Executive Engr., Dacca Division.

**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 6th December 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum (a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum (a)	Remarks.
1919.					
30th November ...	8 A.M.	Zero of gauge is at mean sea level.	41.60	40.21	B. M. on College step corrected, 64.93.
1st December ...	8 "		41.50	40.16	
2nd "	8 "		41.40	40.11	
3rd "	8 "		41.30	40.01	
4th "	8 "		41.20	39.91	
5th "	8 "		41.10	39.81	
6th "	8 "		41.00	39.71	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	...	Highest water-level	66.52 on 30th August 1918	61.71
Ditto	...	Lowest "	41.70 on 21st April 1918	36.89
Record	...	Highest "	69.25 on 20th August 1879	64.44
Do.	...	Ditto "	69.08 on 9th September 1886	64.27
Do.	...	Ditto "	68.80 on 25th August 1906	63.47
Do.	...	Ditto "	68.21 on 26th August 1890	63.40
Do.	...	Lowest "	37.68 on 25th April 1884	32.82
Do.	...	Ditto "	38.18 on 14th-15th April 1883	33.82
Do.	...	Ditto "	39.02 on 21st-22nd April 1897	34.21
Do.	...	Ditto "	39.28 on 6th-7th May 1908	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA.

The 6th December 1919.

M. SENGUPTA,

Executive Engineer, Rajshahi Divn.



**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 8th December 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
30th November	7 A.M.	11.3	11.3	10.1	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
1st December	7 "	11.1	11.1	10.0	
2nd "	7 "	11.0	11.0	9.9	
3rd "	7 "	10.9	10.9	9.8	
4th "	7 "	10.8	10.8	9.7	
5th "	7 "	10.8	10.8	9.7	
6th "	7 "	10.8	10.8	9.7	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	...	5.8 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 21st August 1898.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	25.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 13th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	3.16 on 9th to 11th March 1865.
Do.	...	Ditto	...	3.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,

R. K. GHOSE,

The 8th December 1919.

for Subdivisional Officer, P. W. D., Faridpur.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 24, 1919.

## SUPPLEMENT.

### OFFICIAL PAPERS.

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## RESOLUTION ON THE ANNUAL PROGRESS REPORT ON THE FOREST ADMINISTRATION IN THE PRESIDENCY OF BENGAL FOR THE YEAR ENDING THE 30TH JUNE 1919.

### GOVERNMENT OF BENGAL.

#### REVENUE DEPARTMENT.

##### Forests Branch.

CALCUTTA, THE 19TH DECEMBER 1919.

#### RESOLUTION—No. 9655For.

##### READ—

The Annual Progress Report on the Forest Administration in the Presidency of Bengal for the year ending the 30th June 1919.

##### READ ALSO—

The corresponding report of the previous year and the Government Resolution thereon.

SIR HENRY FARRINGTON was in charge of the Bengal Forest circle throughout the year. He was on tour for 289 days and inspected all the



divisions and divisional offices except Darjeeling, which was inspected after the close of the year. During the year Messrs. L. E. S. Teague, Deputy Conservator of Forests, and J. M. Cowan, Assistant Conservator of Forests, were released from military duty, but Mr. A. R. Nicholson, Deputy Conservator of Forests, remained on that duty throughout the year.

**2. Changes in area and administration.**—The only real change made in the area under the different classes of forests during the year was due to the notification of several areas aggregating 4 square miles in the Darjeeling, Jalpaiguri and Buxa divisions as reserved forest. The total area of all classes of forests, however, decreased by one square mile to 10,701 square miles owing to the recalculation of the areas of the Sitapahar reserve and of the Lebong Cantonment protected forests.

**3. Reservation and demarcation.**—Apart from the four square miles mentioned in the previous paragraph no progress has been made in the final notification of the proposed Ramshai, Khairbari and Torsa reserves owing to lack of funds. Repairs to 1,823 miles of boundary were carried out against 1,260 in the previous year. There still remain 124 miles of boundary to be demarcated, of which 90 form the provincial boundary between Bengal in the Chittagong Hill Tracts and Burma. It is important that this work should be completed as soon as possible.

**4. Working-plans.**—The revised working scheme for the Kurseong division for the year 1919-26 was sanctioned early in the year. The revised working-plans for the Jalpaiguri and Buxa divisions were completed. During the year the compilation of working-plans for the forests in the Chittagong and Chittagong Hill Tracts divisions was commenced. Plans now exist or are under compilation for all areas for which they are required except for 64 square miles.

**5. Communications and buildings.**—One mile of cart road and seven miles of bridle-path were constructed during the year. It is satisfactory to learn that 12 miles of inspection foot-paths were also constructed in the Kasalong and Sitapahar ranges in the Chittagong Hill Tracts division and that they will be useful to the public. The total expenditure on communications amounted to Rs. 18,757 against Rs. 15,904 in the previous year. The total expenditure on buildings was Rs. 33,550 against Rs. 25,311 in 1917-18.

**6. Protection.**—The number of forest offences reported during the year was 3,694 as compared with 2,780 in the previous year. The increase is mainly attributed to increased vigilance by the subordinate staff owing to the grant of adequate rewards to them for the detection of offences, partly to the prolonged drought in the hot weather of 1919 leading to scarcity of fodder and consequently to unauthorised grazing, partly to the large influx of tea garden coolies ignorant of forest rules into the Buxa and Jalpaiguri divisions, and partly to the greater expense of living. In 93 per cent. of cases taken into the court convictions were secured.

The area in which special measures for fire protection were in force increased from 367,854 to 396,606 acres, but the area burnt over amounted to 24,876 against 7,566 acres in the previous year. This heavy increase is mainly due to two large fires in the Haldibari and North Borojhar ranges, and is attributed to the unusually dry character of the hot weather. Measures are under consideration for fire protection in the Chittagong and the Chittagong Hill Tracts divisions.

There has been no change in the area open to grazing, which covers 4,747 square miles. The number of cattle impounded during the year was 7,021 against 4,720 in the preceding year. This increase is again attributed to the prolonged drought in the hot weather and the consequent scarcity of fodder.

No definite conclusions can yet be drawn from the observations which are being conducted on the *sal* fungus. Extensive defoliation was caused by the *sal* defoliator in the Buxa division.

Damage to plantations by elephant, bison, pig and deer is being reduced to a minimum by the use of wire-fencing.



7. **Exploitation.**—No change was introduced into the system of disposing of minor produce. There was a large increase in the outturn of bamboos and of thatching materials, but a fall occurred in the revenues derived from grazing and from royalties for the lease of elephant mahals. Only 34 elephants were caught by licensees, of which 7 died. The amount of timber cut or collected by Government agency rose from 353,508 cubic feet in the preceding year to 644,887 in the year under review. This remarkable increase was mainly due to the supply of timber to the Munitions Board; but there are indications, for example the economical working of the Murti Saw Mill, that a more extensive use of the departmental agency for extraction would lead to larger revenues.

8. Industrial investigation and commercial activity were two noteworthy features of the year under review. Mr. H. S. Gibson, Deputy Conservator of Forests, was placed on special duty under the Director of Industries to enquire into the industrial possibilities of the forests of Bengal. On return from leave Mr. J. C. Carroll, Deputy Conservator of Forests, was deputed as Forest Utilisation Officer to carry out further investigations; and Mr. J. A. Pilgrim, L.T.C., was deputed in the month of June last to investigate tannin materials in the Sundarbans. A lease of 120 square miles in the Buxa forests was given to Messrs. Davenport & Co. for the extraction of all trees other than *sal* by duly controlled fellings for the manufacture of tea chests and three-ply wood. Arrangements were under discussion for the grant of a lease of an area in the Kasalong reserve in the Chittagong Hill Tracts to Messrs. Andrew Yule & Co., for the extraction of bamboos for the manufacture of paper pulp. An application by the Acme Tea Chest Company for the grant of a lease to extract timber for three-ply tea chests in some of the reserved forests in Chittagong also came under the consideration of Government. No applications were, however, received from Indian capitalists.

9. It is satisfactory to learn that the number of persons reported as killed by tigers was only 5 as against 14 in the previous year and 51, the average of the last five years. Thirty-five tigers including three cubs and a large proportion of females were killed as against 46 in the preceding year.

10. **Financial results.**—The results of the year's working were eminently satisfactory. The total revenue increased from Rs. 15,01,670 to Rs. 19,55,394, by over 4½ lakhs, due mainly to departmental working in connection with the production of munitions. At the same time the expenditure increased by only a little over half a lakh from Rs. 7,71,124 to Rs. 8,33,634. The surplus amounted, therefore, to Rs. 11,21,760 against Rs. 7,30,546 in the previous year.

11. **Quinquennial review.**—The Government of India in their circular No. 1F.31-1, dated the 17th January 1912, desired that the orders of Local Governments on the Forest Reports for the years in which a quinquennial review was issued should be accompanied by a brief review of the events and changes of the preceding five years so as to indicate the direction in which the provincial forest policy is tending. This review is due this year. An account of the main features of forest working during the quinquennium will, therefore, be found in chapter VII of the report of the Conservator. Except towards its termination the period has not been marked by any important development. This is due to the fact that it roughly corresponded with the duration of the war when industrial development, except that due to the war, was dormant, expenditure was reduced to a minimum, and new schemes were kept in abeyance. The average annual total receipts during the last five years have been Rs. 14,53,023 as compared with Rs. 14,63,702 during the period from 1909-10 to 1913-14, and the average annual surplus fell from Rs. 8,17,159 to Rs. 7,53,671. An increase of revenue is, however, now expected under the agreements made or under consideration for the working of different forests by commercial agency as well as by a more extended use of the departmental working which led to such a large increase of revenue in the last year of the quinquennium. There has been little



change in the areas under the different classes of forests. Working-plans still cover nearly half the forest area, but working-plans for 1,625 more square miles are under preparation and the revision of others was undertaken. The feature of a revised scheme sanctioned for the Kurseong Forest division was the substitution of artificial for natural production of *sal*. Progress was made in the demarcation of boundaries. One hundred and seventy-five miles were artificially demarcated in the quinquennial period, but 124 miles still remain to be completed mainly in the Chittagong Hill Tracts division. Though there has been a reduction in the area under systematic fire protection during the period from 1,038 to 614 square miles, the forests have been successfully protected from fire. There has been no change in the average area of all classes of forests open to grazing; and protective measures to prevent the most destructive forms of grazing were continued in the Darjeeling, Kalimpong, Jalpaiguri, Buxa and Chittagong divisions. The average annual amount spent on roads, bridges, buildings and other works decreased from Rs. 87,853 during the previous quinquennium to Rs. 70,406 owing to enforced economies. During the period a reorganisation of the Imperial and Provincial staff providing an increased number of appointments was sanctioned; and subsequent to the close of the year the pay and prospects of the Imperial staff have been substantially increased as a result of a consideration of the proposals of the Public Services Commission.

12. The thanks of the Governor in Council are due to Sir Henry Farrington for his careful and efficient administration of the department during the year and for that part of the quinquennium, from the 7th January 1916, during which he held charge of the Bengal circle. His Excellency in Council notices with pleasure the Conservator's appreciation of the good work done by officers of the department during the year.

ORDER.—Ordered that this resolution be published in the gazette and that a copy, with a copy of the report, be submitted to the Government of India.

By order of the Governor in Council,

M. C. McALPIN,

*Secy. to the Govt. of Bengal.*



## DEPARTMENT OF AGRICULTURE, BENGAL.

### Final Forecast of the *Bhadol* Crops of Bengal, 1919-20.

(NOTE.—On an average of the five years ending 1917-18, the area under autumn rice in Bengal has represented some 6·5 per cent. of the total area under rice in British India.)

**Character of the season.**—As stated in the preliminary forecast the weather conditions in the beginning of the season were generally favourable in West Bengal, but less favourable in North and East Bengal, owing to insufficient rainfall. Consequently sowings, which commenced at the usual time in West Bengal, finished somewhat late in North and East Bengal. Good rainfall in June favoured the growth of the crops. Heavy rainfall in July and in the early part of August caused damage in the districts of the Presidency Division, Hooghly, Bogra, Pabna, Malda, Faridpur and Bakarganj. Some injury by insects is also reported from the 24-Parganas, Jessore and Jalpaiguri. On the whole, however, the season was much better than last year.

**Acreeage.**—The total area sown this year with the different *bhadol* crops dealt with in the forecast is estimated at 5,827,800 acres against 5,933,300 acres reported in the corresponding forecast of last year. Of this, the area under autumn rice is returned at 4,961,600 acres against 5,066,600 acres of last year.

**Outturn.**—According to the estimates of the district officers, the total outturn of the different *bhadol* crops works out to 85 per cent. of the normal as against 77 per cent. reported in the corresponding forecast of last year, and that of autumn rice only to 87 per cent. against 77 per cent. of last year.

**Autumn rice.**—Accepting 87 per cent. as the outturn of autumn rice this year, the gross outturn of the crop for the province, on the basis of a normal yield of  $10\frac{1}{2}$  maunds of clean grain per acre, is estimated at 33,299,400 cwts. against 30,095,600 cwts. reported in the corresponding forecast of last year.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

Dacca,

The 12th December 1919.



## APPENDIX I.

Final Forecast of the *Bhadol* Crops of Bengal, 1919-20.

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
21-PARGANAS.		Acres.	Acres.	Acres.				
	<i>Bhadol</i> paddy (autumn rice).	73,400	69,800	62,500	75	83	Middle of September. Normal.	The outturn is below the normal owing to heavy rain in the Diamond Harbour and Basirhat subdivisions and to want of rain in the Barasat subdivision. Slight damage also by insects was caused in the Barasat subdivision.
	Indian-corn (maize) ...	...	100	100	67	83		
	Other <i>bhadol</i> cereals ...	3,600	2,400	1,700	67	76		
	Other <i>bhadol</i> pulses ...	1,300	3,800	3,000	58	75		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	5,600	2,300	2,100	93	75		
	Other <i>bhadol</i> food-crops.	...	200	200	83	80		
	<i>Bhadol</i> fodder crops other than jowar, bajra, marua and maize.	100	1,300	1,000	75	67		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	...	...	...	...	...		
	Total ...	84,000	72,800	70,600	74	83		
KADIA.								
	<i>Bhadol</i> paddy (autumn rice).	421,100	472,800	457,800	83	100	July. Normal ...	The weather has been favourable since the submission of the preliminary forecast.
	Mandua, marua or ragi	100	...	300	...	67		
	Indian-corn (maize) ...	800	...	100	...	67		
	Other <i>bhadol</i> cereals ...	8,000	5,700	6,300	67	67		
	Other <i>bhadol</i> pulses ...	1,000	5,000	7,800	67	67		
	Indigo ...	6,400	2,100	2,400	58	58		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	5,800	1,900	2,100	80	67		
	Other <i>bhadol</i> food-crops	1,800	3,000	3,100	58	67		
	<i>Bhadol</i> fodder crops other than jowar, bajra, marua and maize.	(30)	...	...	...	...		
	Mulberry ...	...	...	200	...	67		
	<i>Bhadol</i> fibres other than jute.	8,900	15,700	15,700	67	67		
	Total ...	522,900	508,200	494,900	82	97		
MURSHIDABAD.								
	<i>Bhadol</i> paddy (autumn rice).	239,700	177,900	190,400	75	92	End of July to October. Normal.	The decrease in area under marua, other <i>bhadol</i> cereals and mulberry as compared with the preliminary forecast, is due to revision of estimates after enquiry. The weather has been favourable since the submission of the preliminary forecast. The outturn has fallen below the normal owing to damage caused by drought in the Kandi and by floods in the Lalbagh and Jangipur subdivisions.
	Jowar ...	100	100	...	100	...		
	Bajra ...	500	300	300	63	92		
	Mandua, marua or ragi	800	800	800	75	83		
	Indian-corn (maize) ...	1,000	1,000	1,200	83	83		
	Other <i>bhadol</i> cereals ...	3,300	4,000	2,800	67	63		
	Other <i>bhadol</i> pulses ...	2,000	1,100	1,100	67	73		
	Indigo ...	...	3,100	3,200	75	83		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	2,000	1,700	2,000	88	75		
	Other <i>bhadol</i> food-crops	5,000	2,500	2,500	75	73		
	<i>Bhadol</i> fodder crops other than jowar, bajra, marua and maize.	2,500	2,200	3,000	67	75		
	<i>Bhadol</i> fibres other than jute.	400	400	600	67	75		
	Mulberry ...	4,000	3,900	3,000	67	75		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	20,000	4,500	3,900	75	67		
	Total ...	271,200	208,100	214,100	75	90		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
JESSORE.	<i>Bhadol</i> paddy (autumn rice).	407,800	366,000	343,400	78	83	August. Normal	The decrease in area this year is due to jute being sown in lands which were sown with paddy last year. The weather was favourable since the submission of the preliminary forecast. The outturn is below the normal on account of the damage caused by flood and cyclone.
	Other <i>bhadol</i> cereals ...	13,200	9,100	10,800	34	75		
	Other <i>bhadol</i> pulses ...	13,200	8,600	7,300	60	67		
	Other <i>bhadol</i> food-crops.	1,200	700	2,100	60	67	September. Normal.	
	<i>Bhadol</i> fodder crops other than jowar, bajra, masha and maize.	12,100	1,000	300	60	100		
	<i>Bhadol</i> non-food crops other than fodder and fibres.							
	Total ...	445,000	384,400	363,000	74	83		
KHULNA.	<i>Bhadol</i> paddy (autumn rice).	17,800	20,200	22,900	100	83		The increase in area as compared with last year is due to the fact that the high price of rice this year induced the cultivators to cultivate more lands with <i>bhadol</i> paddy. The weather was favourable at sowing time but heavy rain and floods in the latter part of July caused damage to the crops. Hence the outturn is below the normal.
	Other <i>bhadol</i> cereals ...	300	100	100	85	83		
	Other <i>bhadol</i> pulses ...	600	400	400	85	83	Middle of September. Normal.	
	<i>Bhadol</i> fruits and vegetables, including root-crops.	14,800	13,000	12,900	85	78		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	300	100	100	92	100		
	Total ...	33,700	33,800	36,400	94	80		
BURDWAN.	<i>Bhadol</i> paddy (autumn rice).	140,000	110,700	121,300	83	100	End of September to middle of October. Normal.	The increase in area over last year is due to timely rainfall. The weather was favourable except in the Nadar subdivision. The outturn, on the whole, is expected to be normal, but in some cases it has fallen below the normal owing to drought.
	Mandua, masha or ragi.	...	(60)	(80)	83	83	End of September. Late.	
	Indian-corn (maize) ...	3,000	1,000	1,200	67	100	Beginning of the year. A little late.	
	Other <i>bhadol</i> cereals ...	1,000	600	600	92	75		
	Other <i>bhadol</i> pulses ...	1,200	1,000	1,000	83	83		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	3,000	2,000	2,700	75	83		
	Other <i>bhadol</i> food-crops.	1,700	1,100	1,000	92	83		
	<i>Bhadol</i> fodder-crops other than jowar, bajra, masha and maize.	300	300	300	100	83	October. Normal.	
	<i>Bhadol</i> fibres other than jute.	6,000	4,500	3,000	92	92		
	Mulberry ...	100	...	...	...	...		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	4,000	2,100	3,000	83	83		
	Total ...	160,200	133,800	135,000	82	100		
HURDUT.	<i>Bhadol</i> paddy (autumn rice).	144,100	133,100	133,100	83	92		The weather was favourable.
	Indian corn (maize) ...	1,800	1,800	1,800	75	92		
	Other <i>bhadol</i> cereals ...	1,400	1,300	1,300	67	100		
	<i>Bhadol</i> fruits and vegetables, including root-crops.	10,000	10,000	10,000	67	83	Middle of October. Early.	
	Mulberry ...	1,000	(35)	100	67	83		
	<i>Bhadol</i> non-food crops other than fodder and fibres.	3,800	2,800	3,800	100	100		
	Total ...	161,200	149,000	149,100	82	92		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
BANKURA.		Acrea.	Acrea.	Acrea.				
	Bhadol paddy (autumn rice).	21,800	8,500	6,400	98	108	Middle to end of September. Late in some places.	The weather was good. The rainfall was reasonable and abundant except in some parts of the district where the sowings of aus paddy were somewhat delayed.
	Bajra ... ..	800	700	700	83	108		
	Mandua, marua or ragi	1,100	800	900	93	108		
	Indian corn (maize) ...	8,400	3,300	4,000	88	108		
	Other bhadol cereals ...	2,000	1,500	1,500	83	109		
	Other bhadol pulses ...	2,000	1,500	1,500	83	108		
	Bhadol fruits and vegetables, including root-crops.	2,900	1,500	1,500	■	100	Middle of August. Normal.	
	Other bhadol food-crops	2,700	4,400	4,000	67	100		
	Bhadol fibres other than jute.	800	700	1,000	88	108		
	Bhadol non-food crops other than fodder and fibres.	1,200	1,400	1,800	75	100		
	Total ...	42,800	21,600	32,900	81	105		
MIDNAPORE.	Bhadol paddy (autumn rice).	395,400	102,700	210,700				The weather was not favourable. Owing to heavy rainfall in the beginning and to subsequent drought, the outturn is expected to fall below the normal.
	Jowar ... ..	800	...	500				
	Bajra ... ..	1,200	1,400	500				
	Indian corn (maize) ...	8,000	6,000	3,000				
	Indigo ... ..	100	...	...				
	Other bhadol cereals ...	10,100	5,400	10,500				
	Other bhadol pulses ...	29,200	6,200	8,400				
	Bhadol fruits and vegetables, including root-crops.	28,000	4,400	7,500	88	88	September. Normal.	
	Other bhadol food-crops.	7,400	5,300	5,900				
	Bhadol fodder crops other than jowar, bajra, marua and maize.	500	500	900				
	Bhadol fibres other than jute.	1,100	1,300	1,800				
	Mulberry ... ..	10,200	100	200				
	Bhadol non-food crops other than fodder and fibres.	400	4,200	2,800				
	Total ...	360,500	127,700	254,500	68	88		
HOOGHLY.	Bhadol paddy (autumn rice).	45,500	29,800	27,100	76	80		Sadar—Beginning of September. Early. Serampore and Arambagh—End of September. Normal.
	Indian corn (maize) ...	200	100	100	100	80		
	Other bhadol cereals ...	600	400	400	46	100		
	Other bhadol pulses ...		100	200	66	100		
	Bhadol fruits and vegetables, including root-crops.	3,100	3,800	3,600	68	99		
	Other bhadol food-crops	1,700	500	100	72	100		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	100	100	100	30	100		
	Bhadol fibres other than jute.	100	100	100	84	100		
	Mulberry ... ..	100	...	...	...	...		
	Bhadol non-food crops other than fodder and fibres.	500	...	...	...	...		
	Total ...	51,900	35,000	31,700	75	91		The weather was favourable in the Sadar and Serampore subdivisions, but was unfavourable in the Arambagh subdivision where floods caused damage to the extent of about 33 per cent.



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
HOWRAH.		Acres.	Acres.	Acres.				
	Bhadol paddy (autumn rice).	18,500	7,700	9,500	50	100	Middle of October. Late.	The weather was favourable.
	Indian-corn (maize) ...	200	100	100	57	83	Middle of October. Normal.	
	Other bhadol cereals ...	1,300	900	1,000	50	75		
	Other bhadol pulses ...							
	Bhadol fruits and vegetables, including root-crops.	17,200	6,300	6,000	57	71	Middle of October. Late.	
	Other bhadol food-crops	2,700	1,400	1,300	58	58		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	1,500	400	500	58	57		
	Total	41,500	15,800	18,300	57	85		
	RAJSHAH.	Bhadol paddy (autumn rice).	168,000*	245,000	181,000	51	91	Middle of August to middle of September. Normal.
Jowar ...		100	200	200	47	60		
Mandua, marua or ragi		200	200	200	50	60		
Indian-corn (maize) ...		1,100	1,300	1,300	61	70		
Other bhadol cereals ...		5,800	6,000	6,000	50	56		
Other bhadol pulses ...		2,000	1,900	1,900	50	40		
Bhadol fruits and vegetables, including root-crops.		2,200	2,500	2,500	48	60		
Other bhadol food-crops.		1,500	2,000	2,000	40	58		
Bhadol fodder-crops other than jowar, bajra, marua and maize.		4,500	4,800	4,800	40	58		
Bhadol fibres other than jute.		500	400	400	57	64		
Mulberry ...		1,000	700	700	57	70		
Bhadol non-food crops other than fodder and fibres.		600	900	900	80	58		
Total		187,500*	207,900	204,900	51	87		
DINAKHUR.		Bhadol paddy (autumn rice).	180,700	162,700	99,600	71	78	
	Jowar ...	1,200	1,700	1,900	58	74		
	Bajra ...	100	200	200	73	76		
	Mandua, marua or ragi	...	200	400	83	63		
	Indian-corn (maize) ...	1,000	900	900	71	58		
	Other bhadol cereals ...	1,600	400	500	64	49		
	Other bhadol pulses ...	900	400	700	59	78		
	Bhadol fruits and vegetables, including root-crops.	1,700	1,200	700	59	66		
	Other bhadol food-crops	100	200	1,100	60	74		
	Bhadol fodder-crops other than jowar, bajra, marua and maize.	...	500	400	64	79		
	Bhadol non-food crops other than fodder and fibres.	200	...	...	...	...		
	Total	127,800	151,600	108,400	71	77		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.	
			Last year.	This year.	Last year.	This year.			
JALPAIGURI.		Acres.	Acres.	Acres.					
	Bhadol paddy (autumn rice).	196,000	179,400	108,900	80	88	Middle of August. Normal.	The decrease in area as compared with last year was due to want of timely rainfall.	
	Mandua, maria or ragi	300	300	300	66	100	Second week of October. Normal.		
	Indian-corn (maize) ...	4,000	3,700	3,600	80	83	Middle of August. Normal.	The weather was favourable since the submission of the preliminary forecast.	
	Other bhadol cereals ...	2,100	1,000	900	70	78			
	Other bhadol pulses ...	2,300	1,700	2,000	70	70	First week of November. Normal.		
	Bhadol fruits and vegetables, including root-crops.	13,500	13,100	12,500	70	71	First week of August. Normal.	The bhadol pulses were badly damaged in the Mainaguri Taluk by the insects called "Acha."	
	Other bhadol food-crops	9,200	5,800	6,800	70	80	Third week of October.		
	Bhadol fodder crops other than jowar, bajra, maria and maize.	3,000	3,000	3,000	75	78	August. Normal.		
	Bhadol fibres other than jute.	100	100	100	70	70			
	Bhadol non-food crops other than fodder and fibres.	3,000	2,000	3,000	75	78			
Total ...	226,600	204,000	141,700	79	86				
DARJEELING.	Bhadol paddy (autumn rice).	7,300	3,800	3,700	55	83	15th September. Normal.	Since the submission of the preliminary forecast the weather was favourable.	
	Mandua, maria or ragi	3,300	3,600	3,600	77	78			
	Indian-corn (maize) ...	40,300	48,700	48,700	92	100			
	Other bhadol cereals ...	2,200	700	700	92	67			
	Other bhadol pulses ...		1,700	1,600	100	100			
	Bhadol fruits and vegetables, including root-crops.	400	300	100	100	88			
	Tea ... ..	52,000	54,700	54,700	100	108			
	Other bhadol food-crops	5,200	4,600	4,400	92	92			
	Bhadol fodder-crops, other than jowar, bajra, maria and maize.	...	100	100	100	67			
	Other bhadol non-food crops other than fodder and fibres.	2,900	1,300	1,100	92	62			
	Total ...	118,600	119,300	119,700	95	102			
RANGPUR.	Bhadol paddy (autumn rice).	287,500	210,100	296,900	90	83	July. Normal ...	The decrease in area is due to small area being sown in the Nilphamari subdivision. The weather was not favourable at sowing time and the growth of the plants was retarded by want of rain in the latter part of April and May. Since then the weather was favourable. Except for want of rain there has been no appreciable damage.	
	Jowar ... ..	200	200	200	100	100			
	Indian-corn (maize) ..	100	100	100	100	73			
	Other bhadol cereals ...	20,000	4,900	5,200	80	66	October. Normal.		
	Other bhadol pulses ...		...	...	...	...			
	Bhadol fruits and vegetables, including root-crops.	10,000	1,400	3,600	90	80	August. Normal.		
	Other bhadol food-crops	18,000	900	600	90	85			
	Bhadol non-food crops other than fodder and fibres.	20,000	20,000	20,000	100	80			
	Total ...	380,800	337,700	326,700	90	83			



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
BOGURA.	Acres.	Acres.	Acres.					
	Bhadol paddy (autumn rice).	140,000	111,700	128,000	80	90	Middle of August. Normal.	The weather was favourable since the submission of the preliminary forecast except for some damage caused by flood in the eastern part of the district. The outturn is below the normal owing to unfavourable weather at sowing time and to damage caused by flood.
	Jowar ... ..	...	100	100	80	90		
	Bajra ... ..	...	(10)	(10)	...	75		
	Mandua, marna or ragi ...	...	(20)	(10)	87	100		
	Indian-corn (maize) ...	...	3,000	2,000	75	76		
	Other bhadol cereals ...	3,500	1,500	1,500	25	50		
	Other bhadol pulses ...	...	400	200	26	18		
	Bhadol fruits and vegetables, including root-crops.	2,000	200	200	67	80		
	Other bhadol food-crops	2,000	400	400	25	80		
	Bhadol fodder crops other than jowar, bajra, marna and maize.	...	100	100	45	65		
	Mulberry ... ..	100	(8)	(5)	45	90		
	Bhadol non-food crops other than fodder and fibres.	200	...	...	...	...		
PABNA.	Total ...	146,500	117,400	129,700	60	89		
	Bhadol paddy (autumn rice).	140,000	180,000	172,500	80	79	By the end of July. Late.	The decrease in area was due to unfavourable weather condition at sowing time. Want of rain at sowing time damaged the crops to some extent, but the rainfall in June improved their growth. About 21 per cent. of the crops was damaged by the flood in July. Since the submission of the preliminary forecast, there was no considerable change of weather affecting the outturn.
	Indian-corn (maize) ...	...	...	100	...	62		
	Other bhadol cereals ...	...	...	...	...	79		
	Other bhadol pulses ...	8,000	6,800	6,100	66	79		
	Bhadol fruits and vegetables including root-crops.	...	...	100	...	63		
	Other bhadol food-crops	20,000	20,000	14,900	60	71		
	Bhadol fodder-crops other than jowar, bajra, marna and maize.	2,500	3,500	700	66	71		
	Bhadol fibres other than jute.	...	...	600	...	83		
	Total ...	181,500	220,000	195,000	61	78		
	Bhadol paddy (autumn rice).	278,600	254,000	249,300	100	100	Latter part of July. Normal.	The weather was favourable since the submission of the preliminary forecast. Slight damage has been done to bhadol paddy and maize by flood.
	Jowar ... ..	1,800	1,300	1,300	100	92		
	Bajra ... ..	1,400	1,200	1,200	80	88		
	Mandua ... ..	1,600	1,300	1,300	50	67		
	Indian-corn (maize) ...	29,700	16,000	16,000	78	92		
	Other bhadol cereals ...	2,200	2,800	2,800	80	83		
	Other bhadol pulses ...	100	100	100	80	83		
	Bhadol fruits and vegetables, including root-crops.	9,700	6,600	8,800	80	83		
	Mulberry ... ..	6,000	12,800	12,800	100	108		
	Other bhadol food-crops	20,000	19,400	19,500	80	82		
	Bhadol fodder crops, other than jowar, bajra, marna and maize.	2,000	1,100	2,000	60	58		
	Bhadol fibres other than jute.	7,000	1,800	1,800	60	58		
MAHESHA.	Bhadol non-food crops other than fodder and fibres.	2,400	3,000	2,000	75	75	August. Normal.	The decrease in outturn except in the case of bhadol paddy and mulberry is due to stunted growth owing to absence of sufficient rain after sowing and partly to want of manuring of fields.
	Total ...	363,500	322,400	321,500	96	97		
	Bhadol paddy (autumn rice.)	224,700	267,900	267,400	87	80		
	Bhadol fruits and vegetables, including root-crops.	3,000	4,000	4,100	78	70		
	Other bhadol food-crops	26,800	19,800	19,500	90	99		
	Bhadol fodder crops other than jowar, bajra, marna and maize.	2,700	1,800	1,800	80	90		
	Total ...	275,900	315,500	297,500	88	81		
DACC.	Bhadol paddy (autumn rice.)	224,700	267,900	267,400	87	80	July. Normal	The weather was favourable. The bhadol paddy and bhadol fruits and vegetables suffered considerable damage from drought in the early stages. Hence the outturn is below the normal.
	Bhadol fruits and vegetables, including root-crops.	3,000	4,000	4,100	78	70		
	Other bhadol food-crops	26,800	19,800	19,500	90	99		
	Bhadol fodder crops other than jowar, bajra, marna and maize.	2,700	1,800	1,800	80	90		



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.	
			Last year.	This year.	Last year.	This year.			
MYMENSINGH.	Bhadol paddy (autumn rice).	Acres. 390,600	Acres. 466,600	466,600	80	93	.....	The weather was generally favourable since the submission of the preliminary forecast. The outturn is below the normal owing to damage caused by drought in some places.	
	Bhadol fruits and vegetables, including root-crops.	5,600	5,600	5,600	45	75			
	Other bhadol food-crops	43,000	43,000	43,000	60	75			
	Bhadol fodder crops other than jowar, bajra, maize and milne.	64,000	64,000	64,000	25	38			
	Total ...	503,100	579,000	579,000	67	87			
FARIDPUR.	Bhadol paddy (autumn rice).	233,500	237,200	230,700	90	71	Middle of July. Normal.	The decrease in area was due to increase in area under jute. The weather has been favourable since the submission of the preliminary forecast, but the crops were damaged to the extent of about 39 per cent. owing to flood.	
	Bhadol fruits and vegetables, including root-crops.	25,800	22,200	22,000	74	70			
	Other bhadol food-crops	500	500	500	78	79			
	Total ...	259,800	259,900	254,200	80	71			
BAKARGANJ.	Bhadol paddy (autumn rice).	135,000	280,000	300,000	75	83	April and May. A little late.	The flood at the beginning of August and insect-pests caused some damage. The outturn has consequently fallen below the normal.	
	Other bhadol pulses ...	1,000	500	500	73	67			
	Bhadol fruits and vegetables, including root-crops.	140,000	140,000	140,000	75	88	February to May. Normal.		
	Bhadol non-food crops other than fodder and fibres.	1,400	1,500	1,500	75	75			
	Total ...	278,400	392,000	442,000	75	78			
CHITTAGONG.	Bhadol paddy (autumn rice).	209,000	204,100	194,500	96	100	August to October. Normal.	The weather was generally favourable for the bhadol crops except for tea for which more rain was needed in October.	
	Indian-corn (maize) ...	200	200	200	100	83			
	Other bhadol pulses ...	200	200	200	96	92			
	Bhadol fruits and vegetables, including root-crops.	2,400	2,500	2,500	100	92			
	Other bhadol food-crops	1,800	1,600	1,600	99	100			
	Bhadol fodder crops other than jowar, bajra, maize and milne.	5,800	4,000	4,000	100	100			
	Bhadol fibres other than jute.	300	300	300	100	100			
	Bhadol non-food crops other than fodder and fibres.	100	100	100	100	100			
	Tea ...	5,000	5,000	5,400	94	83			
	Total ...	218,900	217,900	208,800	95	99			
TIPPERA.	Bhadol paddy (autumn rice).	220,000	214,000	202,000	90	83	July. Normal	The decrease in area was due to want of timely rainfall.	
	Other bhadol cereals ...	1,100	600	600	75	100			
	Other bhadol pulses ...	1,000	1,100	1,000	60	100			
	Bhadol fruits and vegetables, including root crops.	7,300	5,100	4,300	60	67			
	Other bhadol food crops	1,000	700	700	50	100			
	Bhadol fodder-crops other than jowar, bajra, maize and milne.	9,000	9,000	8,000	80	100			
	Bhadol non-food crops other than fodder and fibres.	7,000	5,000	5,000	75	100			
Total ...	246,400	235,500	221,600	86	94				



District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the harvesting of each crop was begun this year and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
NOARHALLI.	Bhadol paddy (autumn rice).	304,000	312,000	312,000	70	85	July. Normal	The effects of weather on the cultivation and growth of the crops were on the whole fair.
	Bhadol fruits and vegetables, including root-crops.	1,000	1,000	1,000	90	85		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	2,000	2,000	2,000	90	90		
	Other Bhadol non-food crops other than fodder and fibres.	(31)	...	...	...	...		
	Total ...	307,000	315,000	315,000	70	85		
CHITTAGONG HILL TRACTS.	Bhadol paddy (autumn rice).	180,000	166,000	169,000	85	80	August to September. Normal.	The weather has been fair since the submission of the preliminary forecast. The outturn has fallen much below the normal owing to insufficient rainfall.
	Indian-corn (maize) ...	2,100	1,800	1,400	66	45		
	Other Bhadol pulses ...	4,000	3,000	4,000	60	55		
	Other Bhadol food-crops.	7,000	6,500	7,000	66	40		
	Total ...	201,100	187,800	180,400	85	80		
TOTAL BENGAL.	Bhadol paddy (autumn rice).	5,110,000†	5,086,500	4,981,600	77	87		
	Jowar ...	4,800	3,700	4,300	77	82		
	Bajra ...	4,000	3,800	3,800	62	59		
	Mandua, marua or ragi.	9,100	6,700†	7,400	76	78		
	Indian-corn (maize) ...	102,100	88,100†	88,000	85	95		
	Other Bhadol cereals ...	184,100	77,600†	86,100	70	76		
	Other Bhadol pulses ...	...	...	...	...	...		
	Indigo ...	1,100	10,100	11,700	71	72		
	Bhadol fruits and vegetables including root-crops.	314,900	284,700†	261,800	73	66		
	Other Bhadol food-crops	212,700	164,800	148,800	71	78		
	Bhadol fodder crops other than jowar, bajra, marua and maize.	107,800	103,300	102,000	47	66		
	Bhadol fibres other than ...	16,300	9,200	11,700	88	84		
	Mulberry ...	22,800	17,800	17,800	92	101		
	Tea ...	87,000	59,700*	80,100*	100	106		
	Bhadol non-food crops other than fodder and fibres.	118,200	67,600	64,200	83	78		
	Total ...	5,216,600†	5,039,300	5,037,800	77†	85		

\* Exclusive of figures for Jaipalguri and the Chittagong Hill Tracts.  
† Revised.



## APPENDIX II.

## Abstract statement of estimated acreage and outturn of the autumn rice, 1919.

Provinces.	AREA (IN ACRES).						YIELD (IN CWTs.).							
	Of current year's crop.	Of previous year's crop.	Average of preceding—		Percentage by which column 3 exceeds (+), or is less than (-), area in—		Estimated yield of current year, i.e., of area in column 2.	Yield of previous year, i.e., of area in column 3.	Average of preceding—		Percentage by which column 7 exceeds (+), or is less than (-), yield in—			
					Column 3.	Column 4.					Column 8.	Column 9.		
			1	2	3	4			5	6	7	8	9	10
			Five years.	Ten years.		Five years.	Ten years.		Five years.	Ten years.		Five years.	Ten years.	
Bengal	4,061,600	5,066,600	5,108,600	5,180,000	- 2'07	- 2'88	- 2'65	23,299,400	20,096,600	22,976,400	20,202,700	+ 10'44	+ 11'09	+ 10'26

## DEPARTMENT OF AGRICULTURE, BENGAL.

## Third Forecast of the Cotton Crops of Bengal, 1919-20.

(NOTE.—On an average of the five years ending 1917-18, the area under the cotton crops in Bengal has represented some 0·3 per cent. of the total area under cotton in India.)

THE "early" crop is chiefly grown in the Chittagong Hill Tracts and in the State of Hill Tippera and to a small extent in other districts. The "late" crop is grown mainly in Bankura and Midnapore.

**Character of the season.**—As reported in the second forecast, the weather was generally favourable excepting in the Chittagong Hill Tracts, where heavy rain in July and August affected the crop. Subsequently the weather proved somewhat favourable to both the crops generally, but rainfall in the middle of November caused considerable damage in the Chittagong Hill Tracts and thus reduced the outturn appreciably. The prospects of late crop, so far, are reported to be fair.

**Area sown.**—The total area sown with the early crop is reported to be 66,697 acres and that with the late crop 2,161 acres this year, against 70,786 and 2,203 acres, respectively, in the corresponding and final forecasts of last year.

**Outturn.**—The estimated outturn of the early crop is reported to be 19,539 bales this year against 25,272 and 30,908 bales, respectively, in the corresponding and final forecasts of last year. The outturn of the late crop is returned at 1,000 bales against 919 and 737 bales, respectively, in the corresponding and final forecasts of last year.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.

Dacca,

The 11th December 1919.



## Third Forecast of the Cotton Crops of Bengal, 1919-20.

DISTRICT.	AREA (IN ACRES)—						YIELD (IN BALES) OF 400 LBS. EACH—						Date at which the harvesting of the crops was begun this year.	Remarks by District Officers.			
	Of current year's crop (1919-20).	Of previous year's crop (1918-19).	Average of preceding—	Percentage by which column 2 exceeds (+) or is less than (-) area in—		Of current year, i.e., of area in column 2.	Of previous year, i.e., of area in column 4.	Average of preceding—	Percentage by which column 7 exceeds (+) or is less than (-) area in—								
				Column 3.	Column 4.				Column 8.	Column 9.							
1	2	3	4	5	6	7	8	9	10	11	12	13					
			5 yrs.	10 yrs.	5 yrs.	10 yrs.		5 yrs.	10 yrs.	5 yrs.	10 yrs.						
BENGAL SHED.	Bankura—																
	Early ...	700	600	567	408	+17	+28	+73	350	180	276	207	+94	+27	+69	Middle of October	(1)
	Late ...	1,400	1,400	1,400	1,400	...	...	...	875	685	1,078	1,069	+32	-19	-20	Not yet commenced	
	Midnapore—																
	Early ...	800†	1,600†	1,516	1,588	-50	-47	-50	40	88	114	128	-55	-65	-69	November	(2)
	Late ...	300	700	640	608	-37	-38	-51	19	49	50	43	-61	-63	-56	will begin by the end of March next.	
	Mymensingh—																
	Early ...	22	22	...	...	...	...	...	30	30	...	...	...	...	...	November	(3)
	Late ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	December, and	
	COCHIN S.	Chittagong Hill Tracts—															
Early ...		46,000	51,000	56,400	42,480	-10	-18	-18	14,950	27,540	18,629	15,564	-46	-24	-5	November	(4)
Late ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....	
Hill Tippera—																	
Early ...		18,562	18,607	21,294	24,517	+11	-13	-24	4,055	2,932	4,344	6,471	+38	-4	-9	Middle of October to 1st week of November.	(5)
Late ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....	
Total—																	
Early ...		66,084	69,849	79,37	68,963	-5	-17	-4	19,415	30,760	24,361	20,470	-37	-30	-5		(6)
Late ...		1,700	2,100	2,060	2,004	-19	-17	-15	894	714	1,128	1,142	+25	-21	-22		
Total for other Bengal districts which have started cultivation since last year—																	
Early ...	(b) 683	(a) 897	...	...	...	...	...	124	146	...	...	...	...	...	...	(7)	
Late ...	461	108	...	...	...	...	...	106	23	...	...	...	...	...	.....		
GRAND TOTAL—																	
Early ...	66,697	70,766	...	...	...	...	...	19,539	30,906	...	...	...	...	...	...		
Late ...	2,161	2,238	...	...	...	...	...	1,000	787	...	...	...	...	...	...		

(a) For Nadia, Birbhum, Hooghly, Rangpur, Bogra, Malda, Dacca, Bakarganj, Chittagong, Tippera and Noakhali.

(b) For Nadia, Murshidabad, Jessore, Khulna, Burdwan, Birbhum, Hooghly, Bogra, Malda, Tippera and Noakhali.

\* Conventional area.

† Revised estimate.

(1) The weather has been favourable and the general condition of the crops is good. The date of harvesting of the early crop was normal.

(2) The condition of the crops has not been good owing to excessive rain.

(3) The weather has been fair and the condition of the crop is good.

(4) The weather and general condition of the crop has been fair, but the recent rain has done considerable damage to the crop. The date of harvesting is normal.

(5) Though somewhat unfavourable at the outset, the weather has been favourable to the crop subsequently and the general condition is fair. The date of harvesting is normal.

(6) In Noakhali and in places of Burdwan, the weather has not been favourable. Elsewhere it has been favourable and the present condition of the crops is fair. In Khulna, the plants have all been destroyed by the cyclone in September.



## DEPARTMENT OF AGRICULTURE, BENGAL.

### Second Forecast of the Winter Rice Crop of Bengal, 1919-20.

(NOTE.—On an average of the five years ending 1917-18 the area under winter rice in Bengal represents some 19·1 per cent. of the total area under rice in British India.)

**Character of the season.**—As reported in the first forecast, the weather has been favourable throughout for the broadcast *aman* rice crops. In West Bengal it was also exceptionally good for transplanted *aman* rice in the period July-September. Insufficient rain in October, however, affected the yield of crops on high lands to a slight extent. In East and North Bengal the conditions were not good for transplanted rice in July and August owing to deficient rainfall during this period. At one time matters looked somewhat serious, and large areas were transplanted at a later date than is usual. In September, however, the rainfall was generally in excess and the heavy rain brought by the cyclone in East Bengal did great good to late transplanted rice. On the whole, it may be said that the broadcast *aman* rice is very good and that the transplanted rice crop is satisfactory.

**Acreage.**—According to district officers' estimates the total area under winter rice amounts to 15,551,400 acres as against 15,379,400 acres in the first forecast of this year and 15,962,100 acres in the corresponding forecast of last year. The increase of 172,000 acres over the first forecast was due to good rainfall in September.

**Outturn.**—From the district returns appended it will be seen that Bankura, Malda and Bakarganj report more than a normal crop and seventeen districts report a crop between 80 and 92 per cent. The outturns for the remaining seven districts are as follows :—

Burdwan, Hooghly, Rangpur and Noakhali (75 per cent. each), Nadia and Murshidabad (67 per cent. each), and the Chittagong Hill Tracts (50 per cent.).

As compared with the first forecast the crop has improved in ten districts, deteriorated in eleven and remained stationary in the rest.

On the basis of the above figures the provincial outturn is estimated at 89 per cent. of the normal against 77 per cent. in the corresponding forecast of last year.

I consider 90 per cent. a fair estimate, and accepting this figure the gross outturn for the province, on the basis of a normal yield of  $12\frac{1}{2}$  maunds of clean grain per acre, is estimated at 128,537,100 cwts. against 112,874,900 cwts. returned in the corresponding forecast of last year.

R. S. FINLOW,  
Offy. Director of Agriculture, Bengal.

DACCA,  
The 18th December 1919.



## APPENDIX I.

## Second Forecast of the Winter Rice Crop of Bengal, 1919-20.

District.	Estimated normal area under winter rice.	Estimated area under winter rice.		Estimated outturn as a percentage of the normal yield per unit of area.		The date by which the harvesting generally commenced this year, and whether that date was early, normal or late.		Remarks by District Officers.
		Last year. (1918-19).	This year. (1919-20).	Last year.	This year.			
	Acrea.	Acrea.	Acrea.					
24 Parganas ...	1,041,500	898,200	838,100	83	93	November.	Normal.	Excessive rain since the submission of the first forecast has caused a little damage to crops on lowlands in the Diamond Harbour subdivision and unusual heavy rainfall in the Bashirhat subdivision damaged to some extent the plant in the Sunderban tracts owing to breaches in the embankments. Hence the outturn is expected to fall below normal.
Nadia ...	126,800	128,400	120,100	86	87	Not yet commenced		The increase in area sown is due to the favourable weather at the sowing time. The outturn is expected to be much below the normal owing to want of rain since the submission of the first forecast.
Murshidabad ...	346,600	326,300	318,700	84	87	Ditto		The increase in area sown as compared with the first forecast is due to subsequent transplantation. Crop suffered for want of sufficient rainfall. About 75 per cent. of the crop has been damaged owing to drought and flood in Jangipur subdivision. The outturn is expected to fall below the normal on account of drought at the flowering time.
Jessore ...	468,100	482,800	446,500	87	90	Beginning of November.	Normal.	The decrease in area sown as compared with that of the last year is due to the corresponding increase of late area and also owing to inundation at the time of sowing and transplantation. Insect-pests have affected the crops in Bongaon and Magura subdivisions. The outturn is expected to be below normal owing to the damage caused by flood and insect-pests.
Khulna ...	896,200	781,100	702,700	86	92	Ditto		The outturn is expected to fall below normal owing to the damage caused by the cyclone.
Burdwan ...	874,800	700,000	736,000	86	73	Not yet commenced		The weather since the submission of the first forecast has not been favourable except at Asansol. Insufficient rainfall in the latter part of September and in October has considerably reduced the outturn of the late transplanted crop. The rainfall in November is likely to do much more harm than good and the outturn is expected to fall much below the normal.
Birbhum ...	604,600	601,800	601,500	87	83	Ditto		The weather has been good and a fairly good outturn is expected.
Bankura ...	510,600	520,000	528,000	82.5	125	Second week of November.	Normal.	Insufficient rainfall in the latter part of September and in October affected the crop on high lands in parts of the district. Since the submission of the first forecast about 23 per cent. of crop has been affected by drought and insufficient rainfall.
Midnapore ...	1,527,100	1,448,000	1,463,800	80	83	First week of December.	Normal.	Want of rainfall has adversely affected the growth of crops.
Hooghly ...	376,700	196,800	208,400	72	73	Not yet commenced		The weather has not been favourable since the submission of the first forecast. Insufficient rainfall has affected the crops seriously. The outturn is expected to fall much below the normal owing to long continued drought.
Howrah ...	126,500	114,400	119,500	79	90	Ditto		The weather has not been favourable since the submission of the first forecast. Want of rain in the latter part of the season retarded growth of the crops.
Rajshahi ...	697,000	620,000	646,300	83	90	Ditto		The outturn is anticipated to fall below normal owing to insufficient rainfall at the sowing time.
Dinajpur ...	1,120,300	1,019,100	1,029,000	87.3	80	Ditto		The increase in area sown is due to sufficient rainfall since the submission of the first forecast. Owing to the weather being not favourable at the beginning, the outturn is estimated to fall below the normal.
Jalpaiguri ...	551,300	497,400	417,500	85	80	Ditto		The outturn is expected to fall below the normal owing to unfavourable weather and want of sufficient rainfall at the time of sowing.
Darjeeling ...	66,200	38,800	39,500	92	93	First week of November.	Normal.	Effects of weather on the growth of crop have been fairly good on the whole.
Rangpur ...	822,200	674,000	600,000	89	76	Not yet commenced		The outturn is expected to be much below normal owing to drought in August.
Bogra ...	203,000	480,000	447,000	44	86	End of November.	Normal.	The weather was favourable up to the third week of October, but continued absence of rain since then has done injury to the late transplanted paddy. On account of low flood paddy on high lands in the eastern part of the district was damaged. Hence the outturn falls below the normal.
Pabna ...	546,000	520,000	557,500	80	98	First week of November.	Normal.	The present prospect is promising.
Malda ...	236,200	220,000	202,000	60	117	Latter part of November.	Normal.	The weather has been favourable on the whole, though in some places crop suffered a little for want of rain in the latter part of October. More than normal outturn is expected.



District.	Estimated normal area under winter rice.	Estimated area under winter rice.		Estimated outturn as a percentage of the normal yield per unit of area.		The date by which the harvesting generally commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year (1918-19).	This year (1919-20).	Last year.	This year.		
	Acres.	Acres.	Acres.				
Dacca ...	647,900	649,000	655,900	75	95	Beginning of November. Normal.	The weather was quite seasonable and a very good crop was expected until 24th September when a severe cyclone swept over the district. Since then the weather has been favourable. The cyclone made considerable damage; the outturn is therefore estimated to fall below the normal.
Mymensingh ...	1,126,700	969,700	969,700	75	92	Not yet commenced	The weather was generally favourable. The outturn is below the normal owing to cyclone and want of rain in some parts of the district, specially at the sowing time.
Faridpur ...	770,100	740,000	734,700	69	84	End of October. Normal.	The weather has been fairly favourable. Some damage was done by cyclone which accounts for the estimated outturn to fall below the normal.
Bakerganj ...	1,900,000	1,840,000	1,843,900	130	117	November. Normal.	The weather has been favourable and the outturn is expected to be above normal.
Chittagong ...	418,400	436,100	430,000	96	83	November and December. Normal.	Insufficient rainfall in the month of October and cloudy weather without rain for some days in November likely to reduce the outturn.
Tippera ...	724,800	780,600	808,500	60	93	November. Normal.	Increase in area is due to favourable weather. Slight damage was, however, done to the crop by the cyclone of September.
Noakhali ...	610,000	600,000	600,000	85	75	Early in November. Normal.	Insufficient rainfall in October has been harmful to the crop in the Sadar subdivision. Some damage was caused by <i>afra</i> disease. In Feni subdivision the rainfall in October has done good.
Chittagong Hill Tracts.	47,600	41,600	46,000	100	50	Not yet commenced.	The outturn is expected to fall much below the normal for want of sufficient rainfall.
Total Bengal	10,845,900	10,896,800	10,851,400	72	89		

## APPENDIX II.

## Abstract Statement of the Estimated Acreage and Outturn of the Winter Rice Crop of Bengal, 1919-20.

Provinces.	AREA (IN ACRES).						YIELD (IN CWT.).							
	Of current year's crop (1919-20).	Of previous year's crop (1918-19).	Average of preceding—	Percentage by which column 3 exceeds (+), or is less than (-), area in		Estimated yield of current year, i.e., of area in column 3.	Yield of previous year, i.e., of area in column 3.	Average of preceding—	Percentage by which column 7 exceeds (+), or is less than (-), yield in—					
				Column 3.	Column 4.				Column 8.	Column 9.				
1	2	3	4	5	6	7	8	9	10	11				
			Five years.	Ten years.	Five years.	Ten years.		Five years.	Ten years.	Five years.	Ten years.			
Bengal	10,551,400	10,896,800	15,162,400	15,071,900	+2'1	+3'4	+2'3	138,537,100	104,108,900	131,897,900	136,110,600	+31'8	+5'4	-5'6



APPENDIX III.

Statement showing the Normal and Actual Rainfall in inches in each district in September and October 1919.

District.	SEPTEMBER.		OCTOBER.	
	Normal.	Actual.	Normal.	Actual.
1	2	3	4	5
	Inches.	Inches	Inches.	Inches.
1. 24-Parganas ... ..	9.89	5.63	4.64	1.67
2. Nadia ... ..	7.73	7.11	3.66	1.35
3. Murshidabad ... ..	9.28	6.93	3.43	2.59
4. Jessore ... ..	8.55	9.16	4.32	2.18
5. Khulna ... ..	9.95	15.51	5.04	2.83
6. Burdwan ... ..	8.44	5.64	3.48	2.36
7. Birbhum ... ..	9.51	8.24	3.19	2.74
8. Bankura ... ..	8.40	8.90	2.76	1.92
9. Midnapore ... ..	9.15	4.22	4.66	1.82
10. Hooghly ... ..	8.66	4.81	3.75	0.88
11. Howrah ... ..	8.68	4.10	3.55	1.96
12. Rajshahi ... ..	9.74	8.45	3.59	4.64
13. Dinajpur ... ..	11.47	12.23	3.47	4.00
14. Jalpaiguri ... ..	21.93	30.91	6.15	9.58
15. Darjeeling ... ..	17.55	22.84	4.52	1.70
16. Rangpur ... ..	13.14	12.19	4.72	8.31
17. Bogra ... ..	10.84	10.34	4.30	3.10
18. Pabna ... ..	8.19	9.77	4.21	2.68
19. Malda ... ..	8.87	9.21	3.41	4.55
20. Dacca ... ..	8.70	6.09	4.66	2.69
21. Mymensingh ... ..	12.26	14.51	4.95	8.72
22. Faridpur ... ..	7.11	15.96	5.25	3.43
23. Bakarganj ... ..	11.53	15.54	6.38	2.66
24. Chittagong ... ..	12.82	20.47	7.31	2.05
25. Tippera ... ..	9.84	15.94	5.17	3.08
26. Noakhali ... ..	14.52	19.04	8.06	2.68
27. Chittagong Hill Tracts ..	12.79	15.15	7.01	2.65



## DEPARTMENT OF AGRICULTURE, BENGAL.

### First Forecast of the Spring Oilseed Crops of Bengal, 1919-20.

*(Note.—On an average of the five years ending 1917-18, the area under linseed in Bengal has represented some 5·5 per cent, and that under rape and mustard 19·3 per cent, of the total area under these crops in British India.)*

**Explanatory.**—Three forecasts are issued for the spring oilseed crops. The present one deals only with the area sown and the general condition of the crops.

**Area sown.**—Oilseeds are grown chiefly in Rajshahi, Dacca and the Presidency Divisions. In the other two divisions the cultivation is small. The total area under these crops (excepting sesamum for which separate forecasts are issued) is reported to be 1,280,000 acres this year against 1,296,800 and 1,304,800 acres respectively in the corresponding and final forecasts of last year.

**Character of the season.**—The rainfall in September was generally in excess of the normal in North and East Bengal and was somewhat defective in West Bengal. There was plenty of moisture in the soil for preparatory tillage which began in usual time. Light rain in October facilitated the sowings of the crops. In the early part of November, the sowings were somewhat retarded in some parts of West Bengal through lack of soil moisture, but rainfall in the middle of the month greatly facilitated matters. The outlook is, so far, reported to be promising.

DACCA,  
The 17th December 1919.

R. S. FINLOW,  
Offg. Director of Agriculture, Bengal.



## APPENDIX I.

## First Forecast of the Spring Oilseed Crops of Bengal, 1919-20.

District.	Name of spring oilseed crops.	Estimated normal area under spring oilseeds.	ESTIMATED AREA UNDER SPRING OILSEEDS.		Date by which the sowing of the crops was begun this year.	Remarks by District Officers.
			Last year (1918-19).	This year (1919-20).		
		Acres.	Acres.	Acres.		
24 Parganas...	Linseed ... ..	1,800	600*	600*	October to second week of November.	The sowings were normal. The weather has been favourable and condition of the crops is fair.
	Rape and mustard ...	1,300	800*	800*		
	Other oilseeds (excepting <i>oil</i> ).	300	300	300		
	Total ...	3,400	1,700	1,600		
Nadia ...	Linseed ... ..	66,700	32,300	32,400	October ... ..	The sowings were normal. The weather has been favourable except in the Itanagar subdivision and in parts of the Sadar subdivision. The condition of the crops is good.
	Rape and mustard ...	22,800	14,400	15,300		
	Other oilseeds (excepting <i>oil</i> ).	14,900	3,300	3,700		
	Total ...	98,100	49,900	51,400		
Murshidabad	Linseed ... ..	20,800	13,000	14,900	Middle of October.	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	18,900	12,800	14,700		
	Other oilseeds (excepting <i>oil</i> ).	8,700	3,100	3,400		
	Total ...	48,400	28,900	32,900		
Jessore ...	Linseed ... ..	24,000	9,400	8,300	October and November.	The sowings were normal and the weather has been favourable. The condition of the crops is good on the whole.
	Rape and mustard ...	49,800	18,000	17,600		
	Other oilseeds (excepting <i>oil</i> ).	3,300	1,900	2,300		
	Total ...	76,900	29,300	28,100		
Khulna ...	Linseed ... ..	900	100	100	First week of November.	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	20,700	18,600	12,600		
	Other oilseeds (excepting <i>oil</i> ).	100	800	...		
	Total ...	20,700	19,300	12,600		
Burdwan ...	Linseed ... ..	27,500	7,700	6,400	Last week of September to the second week of November.	The sowings were normal and the weather has been favourable. The condition of the crops is good in Asansol and Katwa and fair in other subdivisions. In the Sadar subdivision the crops are suffering for want of rain.
	Rape and mustard ...	21,100	8,100	8,300		
	Other oilseeds (excepting <i>oil</i> ).	1,500	100	800		
	Total ...	49,100	15,900	15,400		
Birbhum ...	Linseed ... ..	800	800*	800*	October ... ..	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	2,000	2,000*	2,000*		
	Other oilseeds (excepting <i>oil</i> ).	300	300	300		
	Total ...	3,000	3,000	3,100		

\* Conventional area.



District.	Name of spring oilseed crops.	Estimated normal area under spring oilseeds.	ESTIMATED AREA UNDER SPRING OILSEEDS.		Date by which the sowing of the crops was begun this year.	Remarks by District Officers.
			Last year (1918-19).	This year (1919-20).		
		Acres.	Acres.	Acres.		
Bankura	Linseed ... ..	1,000	1,000 <sup>a</sup>	1,000 <sup>a</sup>	October ... ..	The sowings were normal and favourable weather prevailed. The condition of the crops is fair.
	Rape and mustard ...	7,000	2,700	4,500		
	Other oilseeds (excepting the).	5,000	2,500	4,000		
	Total ...	13,000	6,200	9,500		
Midnapore	Linseed ... ..	13,000	11,500	12,300	October ... ..	The sowings were normal and favourable weather prevailed. The condition of the crops is fair.
	Rape and mustard ...	21,000	11,000	11,200		
	Other oilseeds (excepting the).	14,800	14,000	15,200		
	Total ...	48,800	36,500	38,700		
Hooghly	Linseed ... ..	800	700 <sup>a</sup>	700 <sup>a</sup>	End of October ...	The sowings were late for want of rain. The weather has not been favourable. The condition of the crops is poor.
	Rape and mustard ...	7,800	3,800	5,800		
	Other oilseeds (excepting the).	3,700	700	700		
	Total ...	11,400	5,200	6,200		
Howrah	Linseed ... ..	2,000	900	800	Beginning of November.	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	1,100	400	800		
	Other oilseeds (excepting the).	100	100	100		
	Total ...	3,200	700	1,200		
Rajshahi	Linseed ... ..	28,000	14,300	14,000	Beginning of November.	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	74,000	57,800	48,100		
	Other oilseeds (excepting the).	400	2,000	100		
	Total ...	102,400	74,100	62,200		
Dinajpur	Linseed ... ..	(40)	(30) <sup>a</sup>	(30) <sup>a</sup>	Middle of October	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	70,000	50,600	57,500		
	Other oilseeds (excepting the).	...	100	100		
	Total ...	70,000	50,800	57,600		
Jaipalguri	Rape and mustard ...	51,600	51,400	46,300	By the end of October.	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Other oilseeds (excepting the).	200	200	200		
	Total ...	51,800	51,600	46,500		

<sup>a</sup> Conventional area.



**SUPPLEMENT TO THE CALCUTTA GAZETTE, DEC. 24, 1919. 1473**

District.	Name of spring oilseed crops.	Estimated normal area under spring oilseeds.	ESTIMATED AREA UNDER SPRING OILSEEDS.		Date by which the sowing of the crops was begun this year.	Remarks by District Officers.
			Last year (1918-19).	This year (1919-20).		
		Acres.	Acres.	Acres.		
Barisal	Rape and mustard ...	7,000	7,800	7,800	Middle of October	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Other oilseeds (excepting <i>id.</i> ).	300	300	300		
	Total ...	7,300	8,000	8,000		
Bangpur	Rape and mustard ...	180,000	118,000	124,000	Latter part of October. Normal.	The sowings were normal. The weather has been favourable. The condition of the crops is good.
	Other oilseeds (excepting <i>id.</i> ).	1,100	300	300		
	Total ...	181,100	118,300	124,300		
Bogra	Linseed ...	1,000	1,800	1,800	Middle of October	The weather condition was not favourable at the sowing time but has afterwards become favourable.
	Rape and mustard ...	60,000	12,000*	14,000		
	Other oilseeds (excepting <i>id.</i> ).	...	300	300		
	Total ...	61,000	13,800	16,100		
Pabna	Linseed ...	7,600	8,500	10,800	End of October ...	The sowings were normal. The weather has been favourable. The condition of the crops is good.
	Rape and mustard ...	110,000	114,300	72,900		
	Total ...	117,600	123,000	83,700		
Malda	Linseed ...	8,000	8,500	8,000	Middle of October	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	30,000	10,000	11,000		
	Other oilseeds (excepting <i>id.</i> ).	2,800	1,300	1,300		
	Total ...	38,800	19,800	19,300		
Dacca	Linseed ...	1,300*	4,800	1,400	Beginning of November.	The sowings were normal. The weather has been favourable. The condition of the crops is good. The increase in area sown, as compared with that of the last year, is due to some of the lands under winter paddy, damaged by cyclone, being utilized for growing spring oilseed crops.
	Rape and mustard ...	84,600*	74,900	88,700		
	Other oilseeds (excepting <i>id.</i> ).	1,700*	...	1,700		
	Total ...	91,600	79,500	91,800		
Mymensingh	Linseed ...	13,800	13,800	13,800	Middle of October	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	480,700	473,300	473,300		
	Other oilseeds (excepting <i>id.</i> ).	300	300	300		
	Total ...	494,800	487,400	487,400		
Faridpur	Linseed ...	8,900	6,100	6,300	October ...	The sowings were normal. The weather has been favourable. The condition of the crops is good.
	Rape and mustard ...	23,700	26,700	24,300		
	Other oilseeds (excepting <i>id.</i> ).	1,100	1,100	1,100		
	Total ...	33,700	33,900	31,700		

\* Revised on the basis of settlement records.



## 1474 SUPPLEMENT TO THE CALCUTTA GAZETTE, DEC. 24, 1919.

District.	Name of spring oilseed crops.	Estimated normal area under spring oilseeds.	ESTIMATED AREA UNDER SPRING OLSEEDS.		Date at which the sowing of the crops was begun this year.	Remarks by District Officers.
			Last year (1918-19).	This year (1919-20).		
		Acres.	Acres.	Acres.		
Bakerganj ...	Linseed ... ..	4,300	4,400	4,400	October and November.	The sowings were normal. The weather was favourable at the beginning of the season, but rain in the middle of November has damaged about 15 per cent. of the crops. The present condition of the crops is however good. Owing to high price of mustard oil the cultivation of the crop has increased.
	Rape and mustard ...	1,100	1,500	2,000		
	Other oilseeds (excepting (ii)).	200	100	100		
	Total ...	5,600	6,000	7,500		
Chittagong ...	Linseed ... ..	100	100	100	October to November.	The sowings were normal. The weather has not been very favourable. The condition of the crops is fair.
	Rape and mustard ...	5,600	2,000	2,000		
	Other oilseeds (excepting (ii)).	100	100	100		
	Total ...	5,800	2,200	2,200		
Tippura ...	Linseed ... ..	4,800	4,300	3,300	October ...	The sowings were normal. The weather has been favourable. The condition of the crops is fair.
	Rape and mustard ...	24,300	26,300	26,100		
	Other oilseeds (excepting (ii)).	800	800	800		
	Total ...	40,100	31,300	29,800		
Noakhali ...	Linseed ... ..	5,000	6,000	7,000	November ...	The sowings were normal. The weather has been favourable for the growth of the crops. The condition of the crops is fair.
	Rape and mustard ...	600	600	600		
	Other oilseeds (excepting (ii)).	700	800	900		
	Total ...	6,300	7,500	8,500		
Chittagong Hill Tracts.	Rape and mustard ...	13,000	12,000	12,100	Second week of November.	The sowings were normal. The weather was favourable so long, but the present cloudy weather attended with rains has damaged the crops to some extent.
Total Bengal	Linseed ... ..	223,100	144,400	145,300		
	Rape and mustard ...	4,348,500	1,125,400	1,097,100		
	Other oilseeds (excepting (ii)).	67,800	24,000	27,700		
	Total ...	4,649,300	1,304,800	1,380,000		



# MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR NOVEMBER 1919.

**I. Character of the season.**—During the middle of the month, rainfall was general throughout the province. The fall was above the average everywhere, excepting in Birbhum, and in some northern districts where it was defective. The usual rainfall statement is appended.

**II. Progress of agricultural operations.**—Harvesting of winter paddy commenced. Sowing of spring crops proceeded favourably, though lack of moisture in the early part of the month retarded operations somewhat in parts of West Bengal. The rainfall in the middle of the month greatly facilitated sowings.

**III. State of standing crops.**—The condition of standing crops was reported to be generally satisfactory.

**IV. Prospects and probable outturn.**—The rainfall in the middle of the month somewhat benefited the late transplanted paddy and greatly helped the growth of vegetables and other standing crops. The outturn of autumn crops was satisfactory for the province as a whole.

**V. Damage to standing crops.**—Some damage to highland winter paddy was caused by drought in Burdwan and Bankura, while early cotton in the Chittagong Hill Tracts suffered from too much rain in the middle of the month. *Ufra* disease and insects caused some damage in parts of Faridpur and Noakhali.

**VI. Condition of agricultural stock.**—The condition of live-stock was reported to be fair on the whole. Cattle-disease was, however, reported from places in Nadia, Murshidabad, Khulna, Birbhum, Jalpaiguri, Darjeeling, Malda, Mymensingh, Faridpur and Tippera.

**VII. Failure of pasturage and fodder.**—The supply of fodder was sufficient throughout the province except in parts of Khulna and Faridpur where insufficiency of fodder was reported.

**VIII. Prices of food-grains.**—During the second fortnight of the month the price of common rice rose in the districts of Khulna, Bankura, Dacca, Noakhali and the Chittagong Hill Tracts, fell in twelve districts and remained stationary in the remainder. It varied from 4½ seers a rupee in Khulna, Rangpur, Mymensingh and Bakarganj to 7 seers a rupee in Birbhum and Chittagong.

**IX. Condition of agricultural people.**—The condition of the agricultural population shewed a tendency towards improvement.

R. S. FINLOW.

Offg. Director of Agriculture, Bengal.

Dacca, the 12th December 1919.

## Statement showing the normal and actual rainfall in each district during November 1919.

Division.	District.	Normal district rainfall for the month of November.	Actual district rainfall for the month of November 1919.	Variation from the normal.	Division.	District.	Normal district rainfall for the month of November.	Actual district rainfall for the month of November 1919.	Variation from the normal.
		Inches.	Inches.	Inches.			Inches.	Inches.	Inches.
Presidency	24 Pargannas	0.80	2.40	+ 1.60	Rajshahi - concd.	Rangpur	0.33	0.06	- 0.27
	Calcutta	0.65	1.95	+ 1.30		Rogra	0.32	0.37	- 0.05
	Nadia	0.66	1.05	+ 0.39		Nabna	0.43	0.68	+ 0.25
	Murshidabad	0.74	0.70	+ 0.04		Malda	0.46	0.56	+ 0.10
	Jessore	0.80	1.40	+ 0.60	Dacca	Dacca	0.87	1.50	+ 0.63
	Khulna	0.85	2.50	+ 1.65		Mymensingh	0.59	0.71	+ 0.12
Burdwan	Burdwan	1.04	0.60	- 0.44		Faridpur	0.74	2.07	+ 1.33
	Birbhum	0.51	0.40	- 0.11		Bakarganj	1.31	2.44	+ 1.13
	Bankura	0.55	0.56	+ 0.01	Chittagong	Chittagong	1.33	4.47	+ 3.14
	Midnapore	0.92	1.78	+ 0.86		Tippera	0.97	2.87	+ 1.90
	Hooghly	0.62	0.97	+ 0.35		Noakhali	1.60	2.36	+ 0.76
	Howrah	0.63	1.24	+ 0.61		Chittagong Hill Tracts.	1.71	2.06	+ 0.35
Rajshahi	Rajshahi	0.46	0.92	+ 0.46	Cooh Behar	Cooh Behar	0.36	0	- 0.36
	Dinajpur	0.32	0.11	- 0.21					
	Jalpaiguri	0.53	0.42	- 0.11					
	Darjeeling	0.67	0.23	- 0.44					



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 11th December 1919.

**Summary.**—The week was rainless. Reaping of winter paddy is in full swing. Sowing of spring crops is fast approaching completion. The condition and prospects of standing crops are so far reported to be promising. The average price of common rice for the province has fallen by about 5·63 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	{ 5 6½ }	{ 5 6½ }	Harvesting of sugarcane and winter paddy continues. Water is sufficient. Prospects of standing crops are good.
	Diamond Harbour.	Nil	{ 5½ 6½ }	(n)	
	Barrackpore	Nil	{ 4½ 6 }	4½ 6	
	Barasat ...	(n)	(n)	5	
	Basirhat ...	Nil	{ 6½ 5½ }	4½ 5½	
2	NADIA ...	Nil	{ 5½ 6½ }	{ 5½ 6½ }	Prospects of standing crops are favourable. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	Nil	5	5	
	Meherpur ...	Nil	5½	5½	
	Chuadanga	Nil	{ 5½ 6 }	5½ 6	
	Ranaghat ...	Nil	5	5	
3	MURSHIDABAD	Nil	6†	6½†	Prospects of standing crops are fair. Sowing of <i>rabi</i> crops has been finished. Harvesting of winter paddy continues. Fodder is sufficient. No large import or export of rice. Cattle-disease is reported from Murshidabad thana in Lalbagh subdivision.
	Lalbagh ...	Nil	6†	5½†	
	Jangipur ...	Nil	5½†	5½†	
	Kandi ...	Nil	6†	5½†	
4	JESSORE ...	Nil	{ 6 6 }	{ 5½ 6 }	Standing crops are doing well. Harvesting of winter paddy continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	Nil	6	6	
	Magura ...	Nil	{ 6 6 }	5 5½	
	Narail ...	Nil	{ 5½ 6 }	6½ 6	
	Bangaon ...	Nil	5½	5½	
5	KHULNA ...	Nil	{ 6 6½ }	{ 5½ 6 }	Harvesting of <i>aman</i> paddy is in progress. Fodder and water are sufficient.
	Satkhira ...	Nil	5	5	
	Bagerhat ..	Nil	{ 5½ 6 }	5½ 5½	

\* Burma rice.

† Coarse rice.

§ New

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SEERs PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
6	BURDW N ...	Inches Nil	5	5	Weather seasonable. Sowing of potatoes and other <i>rabi</i> crops continues. Sugarcane and other standing crops are doing well. Harvesting of winter paddy continues. Cattle-disease is reported from thana Katwa.
	Asansol ...	Nil	6½	6½	
	Katwa ...	Nil	5½	5½	
	Kālma ...	(n)	(n)	4½	
7	BIRBHUM ...	Nil	6½	6	Aman paddy is being harvested. Prospects of standing crops are fair. Fodder and water are sufficient. Burma rice is not available.
	Rampurhat...	Nil	6½	6½	
8	BANKURA ...	Nil	6½	6	Export of rice and paddy is going on. Reaping of <i>aman</i> paddy continues. Prospects of standing crops are good.
	Vishnupur...	Nil	6½	7	
9	MIDNAPORE	Nil	{ 4½ 5½ 6½ 6½ }	{ 5½ 6½ 6½ }	Harvesting of winter paddy and sowing of <i>rabi</i> crops are progressing. Prospects of standing crops are fair. Outturn of winter paddy is fair.
	Ghatal ...	Nil	{ 4½ 5½ 5½ }	{ 4½ 5½ 5½ }	
	Tamluk ...	Nil	{ 4½ 5½ 6½ }	{ 4½ 5½ 6½ }	
	Contai ...	Nil	6½	5½	
10	HOOGHLY ...	Nil	{ 4½ 5½ to 6½ }	{ 4½ 5½ to 6½ }	
	Serampore ...	Nil	{ 5½ 6½ }	{ 5½ 6½ }	Effects of weather on the growth of the crops are favourable. Fodder is sufficient.
	Arambagh ...	Nil	6½	6½	
11	HOWRAH ...	Nil	{ 4½ 6½ }	{ 4½ 6½ }	
	Ulubaria ...	Nil	{ 4½ 6½ }	{ 4½ 6½ }	Harvesting of <i>aman</i> paddy continues. Condition of sugarcane and <i>rabi</i> crops is fair. Planting of sugarcane for next year has commenced. Sowing of <i>rabi</i> crops continues. Fodder is sufficient.
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	6	6	
	Naogaon ...	Nil	6½	6½	
	Nator ...	Nil	{ 6½ 7½ }	{ 5½ 5½ }	Prospects of standing crops are fair. Harvesting of winter paddy continues. Fodder is sufficient.
13	DINAJPUR ...	Nil	{ 5½ 4½ }	4½	
	Thakurgaon	Nil	{ 4½ 5½ }	4½	
	Balurghat ...	Nil	{ 6 8½ }	6	
14	JALPAIGURI...	Nil	5	{ 4½ 6½ }	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	Nil	{ 4½ 6½ }	{ 4 6½ }	

\* Burma rice.

† Coarse rice.

‡ And rice.

§ New.

(n) Not reported



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
15	DARJEELING	Nil	{ 4½ 5½ }	{ 4½ 5½ }	Winter paddy and <i>marua</i> are being harvested. Winter potatoes wheat and barley are being sown. Stock of rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	{ 5 5½ }	{ 5 5½ }	
	Siliguri ...	Nil	{ 5½ 6 }	{ 5 6 }	
	Kalimpong...	Nil	{ 5 5½ }	{ 5½ 5½ }	
16	RANGPUR ...	Nil	{ 6 5½ }	{ 4½ 5 }	Sowing of <i>rabi</i> crops is almost finished. Harvesting of winter paddy is in full swing. Price of rice is falling owing to appearance in the market of new rice. Fodder and water are sufficient.
	Nilphamari	Nil	{ 5½ 5½ }	{ 5 5 }	
	Kurigram ...	Nil	{ 5½ 5½ }	{ 4 4 }	
	Gaibandha...	Nil	{ 5½ 5½ }	{ 5 5½ }	
17	BOGRA ...	Nil	{ 6 6 }	{ 6½ 6½ }	Prospects of standing crops are fair. Harvesting of winter paddy continues.
18	PABNA ...	Nil	{ 5 6 5½† }	{ 5 6 6 }	Priees are rising at Sirajganj. Fodder is sufficient.
	Sirajganj	Nil	{ 4 5½ 5½ }	{ 4½ 5½ 5½ }	Harvesting of winter rice continues. Prospects of standing crops are good.
19	MAHDA ...	Nil	{ 5½ 6† }	{ 5½ 5½ }	Fodder and water are sufficient.
20	COOCH BEHAR	Nil	{ 5½ 5½ }	{ 5½ 5½ }	Weather seasonable. Harvesting of <i>hai-mantic</i> paddy continues. Condition and prospects of standing crops are favourable. Fodder and water are sufficient. Burma rice is not available.
21	DACCA ...	Nil	{ 5 6 5½ }	{ 4½ 5½ 5½ }	Condition and prospects of winter rice and <i>rabi</i> crops are good. Fodder is dear at Munshiganj.
	Manikganj ...	Nil	{ 5 5½ 5½ }	{ 4½ 5½ 5½ }	
	Narayanganj	Nil	{ 5½ 6 6 }	{ 4½ 6½ 6½ }	
	Munshiganj (a)	Nil	{ 5½ 6 6 }	{ 5½† 6 6 }	
22	MYMENSINGH	Nil	{ 4 5½ 5½ }	{ 4 5½ 5½ }	Harvesting of winter paddy is in progress. Sowing of <i>rabi</i> crops is finished. Prospects are good. Fodder and water are sufficient.
	Jamalpur ...	Nil	{ 3½ 6½ 6½ }	{ 3½ 6½ 6½ }	
	Tangail ...	Nil	{ 3½ 5½ 5½ }	{ 3½ 5½ 5½ }	
	Netrakona ...	Nil	{ 4½ 4½ 4½ }	{ 4½ 4½ 4½ }	
	Kishorganj...	Nil	{ 6 6½ 6½ }	{ 5 6½ 6½ }	

\* Burma rice.

† New.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 5 6½	{ 5 6½	Harvesting of <i>aman</i> paddy continues. Prospects are fair. Fodder is sufficient. Cattle disease is reported from the Sadar subdivision.
	Goalundo ...	Nil	{ 6 6	{ 6 6	
	Madaripur ...	Nil	{ 5½ 5½	{ 5 5½	
	Gopalganj(a)	Nil	{ 5½ 6	{ 5½ 6	
24	BAKARGANJ (BARISAL).	Nil	{ 4 6½ 8	{ 3½ 6 6	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	{ 4 5½ 6	{ 4 6 5½	
	Patuakhali...	Nil	{ 4 6½ 6½	{ 4 6½ 6½	
	Dakshin Shabazpur (Bhola).	(n)	(n)	{ 3½ 4½	
25	CHITTAGONG	Nil	{ 6½ 6½	{ 6½ 6½	Cultivation of <i>rabi</i> crops is in progress. Prospects of standing crops are fair. Harvesting of <i>aman</i> paddy is in progress. <i>Panga</i> salt is selling at 9 and 10 seers per rupee, both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 6½ 6½	{ 6½ 6½	
26	TIPPERA (COMILLA).	Nil	6½	6½	Harvesting of <i>aman</i> paddy is going on. Prospects are good. Sowing of <i>rabi</i> crops is going on. Prospects are fair. Price of rice is falling.
	Brahmanbaria	Nil	{ 7½ 6½	{ 6½ 7½	
	Chandpur ...	Nil	{ 6½ 6½	{ 6½ 6½	
27	NOAKHALI ...	Nil	7½	5	Prospects of standing crops are fair. Fodder is sufficient. Cattle-disease is reported from thana Chhagalnaya.
	Feni ...	Nil	8	7½	
28	CHITTAGONG HILL TRACTS.	Nil	{ 5 6½	{ 5 6½	Prospects of <i>aman</i> paddy are fair. Harvesting of cotton crop and cultivation for <i>rabi</i> crops continue. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

\* Burma rice. † Local rice. ‡ Aus rice. § New.

(n) Not reported.

J. C. ROY,

for Director of Agriculture, Bengal.

Dacca, the 12th December 1919.



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 18th December 1919.

**Summary.**—There was no rainfall during the week. Harvesting of winter paddy is in brisk progress. Sowing of spring crops is almost completed. Condition and prospects of standing crops are reported to be favourable. The average price of common rice for the Province has fallen by about 4·64 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN MESS. PER MUPPE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	{ 5 6½° }	{ 5 6½° }	Harvesting of sugarcane and <i>aman</i> paddy continues. Water is sufficient. Prospects of standing crops are good.
	Diamond Harbour.	(n)	(n)	{ 5½ 6½° }	
	Barrackpore	Nil	{ 4½ 6° }	4½ 6°	
	Barasat ...	Nil	5½	(n)	
	Basirhat ...	Nil	{ 6½ 5½° }	6½ 5½°	
2	NADIA ...	Nil	{ 5½ 6½° }	{ 5½ 6½° }	Prospects of standing crops are favourable. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	Nil	5	5	
	Meherpur ...	Nil	5½	5½	
	Chuadanga ...	Nil	{ 5½ 6° }	5½ 6°	
	Ranaghat ...	Nil	5	5	
3	MURSHIDABAD	Nil	6½†	6†	Prospects of standing crops are fair. Harvesting of winter rice continues. Fodder is sufficient. No large import or export of rice. Burma rice is not available.
	Lalbagh ...	Nil	6½†	6†	
	Jangipur ...	Nil	6½†	5½†	
	Kandi ...	Nil	6½†	6†	
4	JESSORE ...	Nil	6	{ 6 6° }	Standing crops are doing well. Harvesting of <i>aman</i> paddy continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	(n)	(n)	6	
	Magura ...	Nil	{ 6 6° }	6 6°	
	Narail ...	Nil	{ 5½ 6° }	5½ 6°	
	Bangaon ...	Nil	5½	5½	
5	KHULNA ...	Nil	6½	{ 6 6½° }	Weather seasonable. Harvesting of <i>aman</i> paddy has commenced. Fodder and water are sufficient.
	Satkhira ...	Nil	{ 5½ 7° }	5	
	Bagerhat ...	Nil	{ 6 6½° }	5½ 6°	

° Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	Nil	5	5	Weather cold. Harvesting of <i>aman</i> paddy continues. Sugarcane and other standing crops are doing well.
	Asansol ...	Nil	6½	6½	
	Katwa ...	Nil	5½	5½	
	Kalna ...	Nil	5	(n)	
7	BIRBHUM ...	Nil	6½	6½	Harvesting of winter rice continues. Prospects of standing crops are fair. Fodder and water are sufficient.
	Rampurhat...	Nil	6½	6½	
8	BANKURA ...	Nil	6	6½	Reaping of <i>aman</i> paddy continues. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur...	Nil	6½	6½	
9	MIDNAPORE	Nil	{ 5½ <sup>§</sup> 6½ <sup>†</sup> 6½ <sup>•</sup> }	{ 5½ <sup>§</sup> 6½ <sup>†</sup> 6½ <sup>•</sup> }	Prospects of sugarcane are fair. Harvesting of winter rice is progressing. Fodder is sufficient.
	Ghatal ...	(n)	(n)	{ 4½ <sup>‡</sup> 5½ <sup>‡</sup> 5½ <sup>‡</sup> }	
	Tamluk ...	Nil	{ 5 <sup>‡</sup> 5½ <sup>‡</sup> 6½ <sup>‡</sup> }	{ 4½ <sup>‡</sup> 5½ <sup>‡</sup> 5½ <sup>‡</sup> }	
	Contai ..	Nil	{ 6½ <sup>‡</sup> 7 <sup>‡</sup> }	6½	
10	HOOGLY ...	Nil	{ 4½ <sup>‡</sup> 5½ <sup>‡</sup> }	{ 4½ <sup>‡</sup> 5½ <sup>‡</sup> to 6½ <sup>‡</sup> }	
	Serampore ...	Nil	{ 5½ <sup>‡</sup> 6 <sup>•</sup> }	{ 5½ <sup>‡</sup> 6 <sup>•</sup> }	Effects of weather on the growth of the crops are favourable. Fodder is sufficient. Price of rice is steady.
	Arambagh'...	Nil	6½	6½	
11	HOWRAH ...	Nil	{ 4½ <sup>‡</sup> 6½ <sup>‡</sup> }	{ 4½ <sup>‡</sup> 6½ <sup>‡</sup> }	
	Ulubaria ..	Nil	{ 4½ <sup>‡</sup> 6½ <sup>‡</sup> }	{ 4½ <sup>‡</sup> 6½ <sup>‡</sup> }	Weather seasonable. Harvesting of <i>aman</i> paddy and planting of sugarcane continues. Prospects of sugarcane are fair. Fodder is sufficient.
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	6½	6	
	Naogaon ...	Nil	6½	6½	Prospects of standing crops are favourable. Harvesting of winter rice continues. Fodder is sufficient.
	Nator ...	Nil	{ 6 <sup>‡</sup> 7 <sup>•</sup> }	{ 6½ <sup>‡</sup> 7½ <sup>•</sup> }	
13	DINAJPUR ...	Nil	5½	5	Prospects of standing crops are good.
	Thakurgaon	Nil	5½	5	
	Balurghat ...	Nil	7½	8	
14	JALPAIGURI...	Nil	5	5	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	Nil	{ 5 <sup>‡</sup> 6 <sup>•</sup> }	{ 4½ <sup>‡</sup> 6 <sup>•</sup> }	

• Burma rice.

† Coarse rice.

‡ Aus rice.

§ New.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
15	DARJEELING	Nil	{ 4½ 5½	{ 5½ 5½	Winter paddy and <i>marua</i> are being harvested. Potatoes, wheat and barley are doing well. Stock of rice is sufficient. Fodder and water are sufficient. Cattle disease is reported from some places.
	Kurseong ...	Nil	{ 5 5½	{ 5 5½	
	Siliguri ...	Nil	{ 5½ 6	{ 5½ 6	
	Kalimpong...	Nil	{ 5 5½	{ 5 5½	
16	RANGPUR ...	Nil	5½	6	Weather seasonable. Harvesting of winter paddy is going on and that of potatoes has commenced in some places. Prospects of <i>rabi</i> crops are good. Fodder and water are sufficient. Price of rice is falling.
	Nilphamari	(n)	(n)	5½	
	Kurigram ...	Nil	5½	5½	
	Gaibandha ...	Nil	5½	5½	
17	BOGRA ...	Nil	6½	{ 6½	Harvesting of winter rice continues. Prospects are fair.
18	PABNA ...	Nil	{ 5½ 6	{ 5½ 6	
	Sirajganj ...	Nil	{ 4 5½	{ 4 5½	Fodder is sufficient.
19	MALDA ...	Nil	6½	{ 5½ 6½	
20	COOCH BEHAR	Nil	6½	5½	Harvesting of winter rice continues. Prospects of standing crops are good. Fodder and water are sufficient.
21	DACCA ...	Nil	{ 6 6	{ 6 6	Weather seasonable. Harvesting of <i>haimantic</i> paddy continues. Standing crops are doing well. Fodder and water are sufficient. Burma rice is not available.
	Manikganj ...	Nil	{ 5 5½	{ 5 5½	
	Narayanganj	Nil	{ 6 6	{ 5½ 6	
	Munshiganj (a)	Nil	{ 6½ 6½	{ 5½ 6	
22	MYMENSINGH	Nil	{ 5½ 5½	{ 4 5½	Weather seasonable. Harvesting of winter rice is going on. Transplantation of <i>boro</i> paddy has commenced. Prospects of crops are good. Fodder and water are sufficient. Cattle-disease is reported from Netrokona subdivision.
	Jamalpur ..	Nil	{ 5 6½	{ 3½ 6½	
	Tangail ...	Nil	{ 5½ 5	{ 3½ 5½	
	Netrakona ...	Nil	4½	4½	
	Kishorganj...	Nil	{ 6½ 6½	{ 6 6½	

(n) Not reported.

\* Burma rice.

† New.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 5 6½*	{ 5 6½*	Effects of weather are favourable to crops. Harvesting of <i>aman</i> paddy continues. Prospects of standing crops are fair. Fodder is available.
	Goalundo ...	Nil	{ 6 6*	{ 6 6*	
	Madaripur ...	Nil	6½	5½	
	Gopalganj(a)	Nil	{ 6 6½*	{ 5½ 6*	
24	BAKARGANJ (BARISAL).	Nil	{ 4 6½§ 6½*	{ 4 6§ 8*	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	(n)	(n)	{ 4 5½§ 6*	
	Patuakhali ...	Nil	{ 4½ 7§ 8*	{ 4 6§ 6½*	
	Dakshin Sha- bazpur (Bhola).	Nil	{ 4 5½§	{ (n)	
25	CHITTAGONG	Nil	{ 6½† 6½*	{ 6½† 6½*	Prospects of standing crops are fair. Cultivation of <i>rabi</i> crops and harvesting of <i>aman</i> paddy are in progress. <i>Panga</i> salt is selling at 10 and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 6½† 6½*	{ 6½† 6*	
26	TIPPERA (COMILLA).	Nil	7½	6½	Prospects of <i>rabi</i> crops are fair. Harvesting of <i>aman</i> paddy continues; the outturn is hopeful.
	Brahman- baria.	Nil	{ 6½ 6½*	{ 7½ 6½*	
	Chandpur ...	Nil	{ 6 6½*	{ 6 6½*	
27	NOAKHALI ...	Nil	5½	7½	Prospects of standing crops are fair. Fodder is sufficient. Cattle-disease is reported from thana Chhagalnaya.
	Feni ...	Nil	6½	8	
28	CHITTAGONG HILL TRACTS.	Nil	{ 5 6½†	{ 5 6†	Prospects of <i>aman</i> paddy and other standing crops are fair. Harvesting of cotton crop and cultivation for <i>rabi</i> crops are in progress. Fodder is sufficient. Cattle disease is reported from Ramgarh.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

\* Burma rice.

† Local rice.

§ New.

(n) Not reported.

J. C. ROY,

for Director of Agriculture, Bengal.

Dacca, the 21st December 1919.



## DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PRESIDENCY.	24-Parganas	Rangor Island...	...	...	...	...	...	...	...	...	...	0.08	...	...	...	0.22	2.88	0.19	...	...	...	...
		Diamond Harbour.	...	...	...	...	...	...	...	...	...	...	...	...	...	0.12	1.88	...	...	...	...	...
		Budge-Budge	...	...	...	...	...	...	...	...	...	...	...	...	...	0.09	1.16	0.04	...	...	...	...
		Canning Town...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.07	1.74	0.13	0.01	...	...	...
		Alipore	...	...	...	...	...	...	...	...	...	...	...	...	...	0.06	1.16	0.11	0.01	...	...	...
		Barrackpore	...	...	...	...	...	...	...	...	...	...	...	...	...	0.24	1.75	0.07	...	...	...	...
		Dum-Dum	...	...	...	...	...	...	...	...	...	...	...	...	...	0.00	0.25	...	...	...	...	...
		Barasat	...	...	...	...	...	...	...	...	...	...	...	...	...	0.12	2.20	0.08	...	...	...	...
		Basirhat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nadia	Rasaghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.20	0.16	0.15	...	...	...
		Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.80	0.41	...	...	...	...
		Ohudanga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.20	0.89	0.02	...	...	...
		Mohorpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.28	0.58	0.10	...	...	...
		Kushia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.28	...	...	...	...
	Murshidabad.	Haridghata	...	...	0.45	0.85	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kandi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.08	0.50	...	...	...	...
		Berhampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.88	...	...	...	...
		Lalbagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.64	0.04	...	...	...
		Azimganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.48	...	...	...	...
		Jangipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.64	0.02	...	...	...
		Lalgola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.15	0.16	...	...	...	...
		Akriganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.58	...	...	...	...
	Jessore	Patkubari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.27	0.77	...	...	...	...
		Dumkal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.55	...	...	...	...
		Kallyanganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.46	...	...	...	...
		Narail	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.48	0.56	...	...	...	...
BURDWAN.	Jessore	Jessore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.68	1.34	0.70	...	...	...
		Jhenida	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.88	0.23	0.03	...	...	...
		Magura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.30	0.32	...	...	...	...
		Bongaon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.08	1.37	0.17	0.03	...	...
	Khulna	Satkhira	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.01	2.24	0.20	...	...	...
		Bagerhat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.80	2.10	...	...	...
		Khulna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.01	1.54	1.08	...	...	...
		Kaliganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4.50	0.12	0.71	...	...
		Nakipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.15	2.45	...	...	...	...
		Dumuria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.50	1.09	...	...	...
		Rampal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.58	0.08	...	...	...
		Kulaura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.60	0.08	...	...	...
		Patkanchha	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.60	1.10	...	...	...
		Mohihat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.45	1.75	2.90	0.40	...	...
		Moriganj	...	...	...	...	...	...	...	...	...	...	0.01	0.01	...	...	0.02	1.80	2.82	0.04	...	...
		Tala	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.06	0.06	0.06	...	...
	Burdwan...	Kalna	...	...	...	...	...	...	...	...	...	...	...	...	...	0.05	0.05	0.20	0.50	0.01	...	...
		Burdwan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.40	0.44	...	...	...
		Katwa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.27	0.26	0.49	...	...	...
		Amanol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.25	...	...	...
		Mankar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.15	0.26	...	...	...
		Mangalkot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.16	0.25	...	...	...
	Birbhum...	Royns	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.50	0.22	...	...	...	...
		Monteswar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Huri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hetampur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.67	...	...	...
		Rampurhat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.45	...	...	...
		Bolpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.34	0.30	...
		Murari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.65	...	...	...
	Baukura...	Baukura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.02	0.26	0.10	...	...	...
		Vishnupur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.40	0.45	...	...	...
		Mallara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.04	0.33	...	...	...
		Khatra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.31	0.26	...	...	...
		Indas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.10	0.68	0.02	...	...
		Kotalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Onda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gangajighati...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.41	...	...	...
		Ralpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.35	0.15	...	...
		Sonamukhi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.25	0.24	...	...
		Taldangra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.23	0.11	...	...
		Saranga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Indpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.02	0.10	0.42	...	...	...
		Achra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barjora	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.43	0.19	...	...	...
		Simalpal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.35	0.24	...	...	...
		Mejia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.18	0.08	...	...	...
		Siromoumpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Palasidanga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Obatura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.13	0.20	0.01	...	...
		Ranibandh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Saltora	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Joypur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ambikannagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

\* Return not received.



[illegible]

(x) Not ascertained.



DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Burdwan-Contd.	Midnapore	Cental	...	...	...	...	...	...	...	...	...	...	...	...	...	0'33	2'40	0'45	...	...	...	...
		Tamuk	...	...	...	...	...	...	...	...	0'01	...	...	...	...	0'39	1'42	0'13	...	...	...	...
		Midnapore	...	...	...	...	...	...	...	...	...	...	...	...	...	0'04	0'43	0'08	...	...	...	...
		Chatal	...	...	...	...	...	...	...	...	...	...	...	...	...	0'07	0'39	0'09	...	...	...	...
		Kukrabati	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'12	1'40	0'01	...	...	...
		Amalgura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'48	0'43	...	...	...
		Panskura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'15	0'44	0'06	...	...	...
		Dautan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'10	2'40	...	...	...	...
		Chandrakona	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pachet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhagwanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	0'20	1'72	...	...	...	...	
		Kultikri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nayabasan	...	...	...	...	...	...	...	...	...	0'10	...	...	...	...	1'35	...	...	...	...	...
		Silda (Belpa-hati)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'41	0'33	...	...	...	...
		Chandi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goaltore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Saiboul	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'59	0'08	...	...	...	...
		Narayanagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'45	0'77	...	...	...	...
		Ramnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'56	3'32	...	...	...	...
		Mohammapur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'34	1'34	...	...	...	...
		Henria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jenka (Kajri)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'20	2'45	0'06	...	...	...
		Nandigram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'70	...	...	...	...
		Moyua	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pingla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Narajole	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'54	...	...	...	...	...
Burdwan-Contd.	Hooghly	Serampore	...	...	...	...	...	...	...	...	...	...	...	...	...	0'35	0'80	0'10	...	...	...	...
		Hooghly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'32	0'93	0'22	0'15	...	...
	Howrah	Aram																				

\*Return not received.



## BENGAL FOR THE MONTH OF NOVEMBER 1919—contd.

1	2	3	4	5	6	7	8	9	10	11	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Excess rainfall during the month.	Total rainfall from 1st Oct. up to 30th Nov. 1919.	Normal rainfall from 1st Oct. up to 30th Nov. 1919.	Station.	DISTRICT.	DIVISION.
...	...	...	...	...	...	...	...	...	...	...	3	1.3	3.98	1.28	2.70	3.84	2.56	Contal	Midnapore	BURDWAN—contd.
...	...	...	...	...	...	...	...	...	...	...	3	1.1	3.35	0.63	2.72	4.78	4.60	Tamuk.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.9	0.94	0.90	0.04	2.69	4.61	Midnapore.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.8	0.85	0.70	0.15	4.89	3.85	Ghatol.	...	
...	...	...	...	...	...	...	...	...	...	...	1	1.1	1.03	0.87	0.16	3.76	5.17	Kukrahati.	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.8	0.93	0.64	0.29	3.66	3.62	Amargura.	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.9	0.88	1.03	0.15	1.43	4.48	Panskura.	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.8	0.79	0.80	0.01	5.10	5.38	Danau.	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.8	0.79	0.71	0.08	4.40	3.73	Obandratona.	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.1	1.93	0.79	1.14	3.41	4.02	Pachet.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.7	1.08	1.08	0.00	4.60	6.23	Bhagwanpur.	...	
...	...	...	...	...	...	...	...	...	...	...	2	(a)	2.06	(a)	1.85	3.02	3.02	Kulitkri.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.0	0.94	0.40	0.54	3.08	5.13	Nayabasan.	...	
...	...	...	...	...	...	...	...	...	...	...	1	(a)	0.8	(a)	0.00	...	...	Bilda (Ailpa-hari).	...	
...	...	...	...	...	...	...	...	...	...	...	1	1.1	0.78	0.21	0.57	...	...	Obandri.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.6	1.20	1.26	0.06	3.23	4.98	Goaltore.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.1	1.43	1.30	0.13	3.31	4.79	Saiboni.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.1	1.53	1.33	0.20	3.63	4.79	Narayanagarh.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.0	1.03	0.98	0.05	4.40	4.63	Ramnagar.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.1	1.21	1.21	0.00	...	...	Mohampur.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.4	2.01	1.32	0.69	6.35	6.65	Henra.	...	
...	...	...	...	...	...	...	...	...	...	...	1	1.3	1.70	1.00	0.70	3.00	4.30	Jenka (Kahari).	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.8	0.76	0.76	0.00	...	...	Naudigram.	...	
...	...	...	...	...	...	...	...	...	...	...	1	1.3	0.86	0.86	0.00	...	...	Moyun.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.64	0.64	0.00	3.01	4.73	Pingla.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.90	0.90	0.00	...	...	Narajole.	...	
...	...	...	...	...	...	...	...	...	...	...	2	0.9	0.93	0.94	0.01	1.55	4.74	Serampore	Hooghly	
...	...	...	...	...	...	...	...	...	...	...	2	0.9	1.34	0.68	0.66	1.90	4.86	Hooghly.	...	
...	...	...	...	...	...	...	...	...	...	...	2	0.8	0.63	0.63	0.00	3.59	4.00	Arambagh.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.9	1.68	0.63	1.05	4.43	4.83	Howrah	Howrah	
...	...	...	...	...	...	...	...	...	...	...	3	1.0	1.37	0.61	0.76	4.33	4.33	Moharaka.	...	
...	...	...	...	...	...	...	...	...	...	...	3	1.0	1.36	0.68	0.68	3.61	2.99	Uinbaria.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.1	1.08	0.71	0.37	3.60	4.09	Amra.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.46	0.41	0.05	3.79	4.44	Boalia	Boalia	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.71	0.47	0.24	3.49	4.29	Nator.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.16	0.56	0.40	4.17	4.16	Naugson.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	1.50	0.44	1.06	3.80	3.84	Bilmara.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.41	0.41	0.00	...	...	Manda.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.49	0.49	0.00	...	...	Mahadehpur.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.65	0.34	0.31	4.13	3.68	Tanor.	...	
...	...	...	...	...	...	...	...	...	...	...	1	(a)	0.23	(a)	0.23	3.11	3.11	Chaugram.	...	
...	...	...	...	...	...	...	...	...	...	...	1	(a)	0.67	(a)	0.66	4.76	4.76	Joari.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.4	NU	0.43	NU	4.08	4.20	Nithpur	Dinajpur	
...	...	...	...	...	...	...	...	...	...	...	NU	0.3	NU	0.30	NU	4.49	4.49	Naxabganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.3	NU	0.16	NU	7.59	3.03	Gangarampur.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.29	NU	3.11	3.27	Churamon.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.5	NU	0.31	NU	4.63	3.46	Ruganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.4	NU	0.17	NU	5.17	4.36	Dinajpur.	...	
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.15	0.15	0.00	6.24	4.10	Salughat.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.3	NU	0.22	NU	3.01	2.83	Tinkungon.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.76	3.96	Setabganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.3	NU	0.22	NU	3.03	3.01	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
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...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.03	3.03	Samganj.	...	
...	...	...	...	...	...	...	...	...	...	...	NU	0.6	NU	0.30	NU	3.0				



[illegible]

• Return not received.

DACCA, ,  
The 17th December 1919.



BENGAL FOR THE MONTH OF NOVEMBER 1919—*cond.*

1	2	3	4	5	6	7	8	9	10	11	No. of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st October to 30th November 1919.	Normal rainfall from 1st October to 30th November 1919.	Station.	DISTRICT.	DIVISION.
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.27	0.31	0.37	3.44	4.21	Malda.	Malda	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.4	0.21	0.21	0.37	1.89	3.23	Chanchal.	Malda	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.5	0.33	0.33	0.30	3.00	3.35	Guzol.	Malda	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.65	0.63	0.56	3.80	3.73	Sibganj.	Malda	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.24	0.24	0.24	4.83	4.73	Domestapur.	Malda	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.7	1.08	0.86	1.08	6.03	4.29	Nawabganj.	Malda	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	1.66	1.09	0.38	3.10	6.37	Munshiganj.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	1.47	0.88	0.72	2.98	5.39	Dacca.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.7	1.77	0.39	0.52	4.33	4.71	Nawabganj.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	1.82	1.12	0.77	5.01	5.11	Narayanganj.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.9	1.20	1.11	0.68	5.28	6.07	Narsingdi.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	1.24	0.94	0.66	6.03	4.97	Manikganj.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.1	1.10	1.07	0.84	5.14	4.51	Joydebpur.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.9	0.9	0.39	0.39	6.76	6.76	Kapasia.	Dacca	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	1.0	2.12	0.77	2.12	33.31	6.14	Kishorganj.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.8	0.8	0.55	0.55	4.84	4.81	Atia (Tangaila).	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.5	0.40	0.33	0.30	4.46	3.91	Sariakbari.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.9	0.86	0.69	0.77	10.06	6.00	Mymensingh.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.24	0.48	0.81	5.22	5.31	Jamshpur.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.8	0.95	0.65	0.78	11.07	7.03	Netrokona.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0	0.24	0	0.52	5.39	3.32	Pingoa.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.6	0.75	0.47	0.75	4.51	6.79	Durkapur.	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.8	0.75	0.77	0.77	5.60	5.60	Sherpur (Towra).	Mymensingh	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	1	0.5	0.29	0.65	0.25	5.43	5.59	Dewanganj.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.7	0.26	0.63	0.20	5.32	5.51	Nalitabari.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	2.00	0.83	1.08	5.80	5.83	Madaripur.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	1.40	0.99	0.91	3.68	5.49	Faridpur.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	1.01	0.94	0.67	4.18	5.05	Rajbari.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.4	2.96	0.94	1.76	3.97	6.07	(Goalando).	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	3.03	0.91	2.17	7.62	4.99	Haridaspur.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	4	1.3	3.95	0.36	1.98	7.70	6.02	Takhat.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.7	0.85	0.77	0.63	3.78	5.60	Bhanga.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	1.47	0.39	1.10	7.47	6.30	Pangsa.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	2.04	0.84	0.98	3.12	7.56	Dalitkandi.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.6	2.70	0.79	2.05	5.20	7.77	Bhuson.	Faridpur	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	3.80	1.57	2.15	7.39	9.16	Patanakhal.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.7	0.40	0.59	2.13	7.87	8.32	Barguna.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.5	3.67	1.16	1.79	5.56	6.61	Projpur.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	2.93	1.35	1.14	6.33	6.99	Bariel.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.4	3.05	1.11	1.30	5.94	6.67	Gauradi.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.4	2.71	1.35	1.14	5.46	7.49	Bhola.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.4	2.68	1.32	1.28	5.82	8.37	Daulatkhan.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.4	3.27	1.28	1.55	5.59	8.15	Banphal.	Bakerganj.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	4	2.3	6.46	2.49	4.44	8.16	10.73	Cox's Bazar.	Chittagong	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.9	5.42	1.73	2.76	6.88	8.92	Chittagong.	Chittagong	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	4	2.0	5.51	2.33	3.62	7.82	9.46	Kutubdia.	Chittagong	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	2.0	4.50	1.71	2.06	7.84	8.68	Sakania.	Chittagong	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	2.1	3.64	1.81	2.23	5.17	8.30	Kodala.	Chittagong	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.7	1.80	1.56	0.80	3.49	9.27	Miragari.	Chittagong	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.5	1.46	1.02	0.72	2.12	6.82	Oomilla.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	2.51	0.90	1.30	4.03	6.41	Ohandpur.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	1.69	0.76	0.90	5.26	5.99	Brahmanbaria.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	3.32	1.15	1.60	6.64	6.84	Ramchandrapur.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.1	3.89	0.83	1.74	10.35	5.87	Nashinagar.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	1.80	0.92	0.80	2.86	4.98	Dandkandi.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	4.23	1.12	2.27	2.48	5.54	Kasha.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	3.46	1.07	1.25	6.26	6.74	Laksham.	Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.6	2.66	1.59	1.40	6.65	9.47	Noakhali.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.9	3.42	2.00	1.46	6.43	6.40	Peni.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.5	2.02	1.54	1.51	4.39	11.02	Harishpur.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.0	2.43	1.09	1.20	3.64	7.34	Ranganj.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.4	1.85	1.05	1.20	6.14	10.26	Ohagalmaya.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.6	1.96	1.08	1.20	11.76	11.76	Hatiya.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.1	1.81	1.81	1.81	8.48	8.48	Lakhimpur.	Noakhali	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	2.1	4.47	1.66	2.36	9.52	8.10	Rangamati.	Ohittagong Hill Tracts.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	2.3	3.69	1.81	2.08	5.59	3.98	Bandarban.	Ohittagong Hill Tracts.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	2.7	1.70	1.67	0.92	2.70	1.03	Bareal.	Ohittagong Hill Tracts.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	(n)	3.36	(n)	1.39	4.80	(n)	Maholcheri.	Ohittagong Hill Tracts.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	(n)	5.78	(n)	2.00	7.98	(n)	Lawa.	Ohittagong Hill Tracts.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	(n)	1.58	(n)	0.85	5.43	(n)	Ramgarh.	Ohittagong Hill Tracts.	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	1.3	3.55	1.06	2.24	7.67	6.31	Agartala.	Hill Tippera	RASSAH.
...	...	...	...	...	...	...	...	...	...	...	2	0.5	0.5	0.37	0.37	5.61	5.69	Dinhat.	Oooch Behar	Oooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	0.4	0.01	0.70	0.01	13.53	6.06	Oooch Behar.	Oooch Behar.	Oooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	0.2	0.01	0.16	0.16	7.87	5.12	Mickiganj.	Oooch Behar.	Oooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	0.3	0.01	0.21	0.21	5.06	5.76	Mathabang.	Oooch Behar.	Oooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	0.8	0.01	0.29	0.29	19.48	6.70	Fulbari.	Oooch Behar.	Oooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	0.8	0.01	0.29	0.29	19.48	6.70	(Tufanganj.)	Oooch Behar.	Oooch Behar.

(n) Not ascertained.

J. C. ROY,  
for Director of Agriculture, Bengal.



*Vital Statistics of the Towns with a population of 10,000 and over*

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (exclud- ing still- births).	Still-born number registered.	Cholera.	Small- pox.	Plague.
Burdwan ...	1	Burdwan ...	20,527	15,394	35,921	27	...	2	...	...
	2	Raniganj ...	8,417	7,080	15,497	26	...	...	...	...
	3	Asansol ...	12,486	9,433	21,919	24	...	...	...	...
Bankura ...	4	Bankura ...	12,156	11,297	23,453	36	...	...	...	...
	5	Vishnupur ...	10,025	10,453	20,478	31	...	10	...	...
	6	Sonamukhi ...	6,254	7,021	13,275	12	...	1	...	...
Midnapore ...	7	Midnapore ...	17,577	15,163	32,740	50	2	...	...	...
	8	Ghatal ...	6,216	5,848	12,064	9	...	1	...	...
Hooghly ...	9	Hooghly and Chin- sura.	15,817	13,099	28,916	70	...	...	...	...
	10	Serampore ...	19,639	12,439	32,078	54	...	...	...	...
	11	Rishra Konuagore...	10,724	6,792	17,516	40	...	1	...	...
	12	Baidyabati ...	Figures not available			23	...	1	...	...
	13	Bhadreswar ...				10	...	...	...	...
Howrah ...	14	Chandpauli ...				17	...	1	...	...
	15	Howrah ...	114,829	64,560	179,389	359	50	6	11	...
	16	Bally ...	14,217	8,177	22,394	36	1	...	1	...
	17	Cossipore-Chitpur ...	30,793	17,386	48,178	73	5	5	...	...
	18	Maniktala ...	31,735	22,032	53,767	83	5	1	1	...
24-Parganas	19	South Suburban ...	17,683	13,850	31,533	47	1	...	...	...
	20	Tollygunge ...	11,183	7,250	18,433	35	6	...	...	...
	21	Garden Reach ...	27,665	17,630	45,295	64	2	1	2	...
	22	Budge-Budge ...	11,529	6,453	17,982	24	...	2	...	...
	23	Baranagar ...	14,982	10,913	25,895	61	1	...	...	...
	24	Kamarhati ...	11,243	6,772	18,015	13	1	...	...	...
	25	Rajpur ...	5,762	5,845	11,607	23	2	...	...	...
	26	South Dum-Dum ...	7,760	5,114	12,874	13	...	1	...	...
	27	Barrackpore ...	11,357	6,944	18,301	7	...	...	...	...
	28	Panhati ...	6,339	4,779	11,118	15	...	2	...	...
	29	North Barrackpore...	9,780	6,340	16,120	16	1	1	...	...
	30	Tittagarh ...	31,225	13,946	45,171	51	...	...	2	...
	31	Garulia ...	7,876	3,704	11,580	9	...	...	...	...
	32	Naibati ...	11,685	6,534	18,219	...	...	...	...	...
	33	Bhatpara ...	34,739	16,675	50,414	49	1	5	2	...
	34	Basirhat ...	9,517	8,814	18,331	19	...	...	...	...
	35	Baduria ...	7,058	6,622	13,680	24	...	...	...	...
Calcutta ...	36	Calcutta ...	607,674	288,393	896,067	1,453	122	34	32	...
Nadia ...	37	Krishnagar ...	11,767	11,708	23,475	15	2	...	...	...
	38	Nadia or Nabadwip	5,821	6,659	12,480	16	...	...	...	...
	39	Santipur ...	12,186	14,517	26,703	37	...	...	...	...



## of Bengal for the month of September 1919.

REGISTERED.											No.	Towns.
Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.				
					Male.	Female.	Total.	Male.	Female.	Total.		
37	23	10	3	8	54	29	83	54	21	75	1	Burdwan.
10	...	2	...	7	9	10	19	23	20	43	2	Raiganj.
21	7	4	1	1	26	8	34	25	22	47	3	Asansol.
13	7	2	1	14	16	21	37	29	17	46	4	Bankura.
25	5	1	1	11	27	26	53	18	16	34	5	Vishnupur.
13	5	1	...	2	9	18	22	15	14	29	6	Sonamukhi.
17	6	22	1	6	23	29	52	37	21	58	7	Midnapore.
22	4	4	1	...	22	10	32	10	6	16	8	Ghatal.
31	10	12	1	13	32	35	67	25	25	50	9	Hooghly and Chinsura.
17	19	11	2	12	32	29	61	43	33	76	10	Serampore.
16	2	1	1	6	15	12	27	24	13	37	11	Rishra Konnagore
21	3	1	...	7	18	15	33	25	28	53	12	Baidyabati.
5	2	3	1	6	7	10	17	7	5	12	13	Bhadreswar.
10	...	4	...	...	9	6	15	8	9	17	14	Chandani
187	77	102	11	143	278	259	537	256	190	446	15	Howrah.
28	2	7	3	1	27	15	42	24	17	41	16	Bally.
45	6	15	4	25	59	41	100	97	55	152	17	Cossipore-Chitpur.
36	18	27	...	52	71	70	141	52	63	115	18	Maniktala.
38	5	12	2	15	30	42	72	19	30	49	19	South Suburban.
17	3	6	...	...	12	14	26	11	9	20	20	Tollygunge.
20	9	5	...	22	38	21	59	50	20	70	21	Garden Reach.
6	8	...	2	4	17	5	22	18	12	30	22	Budge-Budge.
18	24	5	2	14	26	37	63	43	44	87	23	Baranagore.
16	12	...	...	4	23	9	32	37	14	51	24	Kamarhati.
25	2	1	...	...	12	16	28	11	5	16	25	Rajpur.
20	...	6	1	6	17	7	24	14	5	19	26	South Dum-Dum.
2	1	...	...	1	3	1	4	7	3	10	27	Barrackpore.
8	2	6	...	5	10	13	23	9	17	26	28	Panihati.
19	3	7	1	4	20	15	35	13	11	24	29	North Barrackpore.
70	6	...	...	7	44	41	85	68	44	112	30	Titagarh.
7	...	...	...	...	5	2	7	13	...	13	31	Garulia.
8	1	1	...	3	10	3	13	26	4	30	32	Naihati.
26	5	12	1	12	39	24	63	37	12	49	33	Bhatpara.
27	2	1	...	8	17	21	38	17	23	40	34	Basirhat.
25	...	4	...	4	14	19	33	2	15	17	35	Baduria.
302	286	292	44	942	1,160	822	1,982	1,280	853	2,133	36	Calcutta.
13	7	3	...	3	12	14	26	17	7	24	37	Krishnagar.
13	5	1	...	6	10	15	25	8	14	22	38	Nadia or Nabadwip.
17	6	5	...	8	26	10	36	22	23	45	39	Santipur.



## Vital Statistics of the Towns with a population of 10,000 and over

Districts.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1911.			BIRTHS REGISTERED.		DEATHS		
			Male.	Female.	Total.	Number registered (excluding still-births.)	Still-born number registered.	Cholera.	Small-pox.	Plague.
Murshidabad	40	Berhampore ...	14,302	11,841	26,143	40	...	...	...	...
	41	Murshidabad ...	6,259	6,410	12,669	8	...	...	...	...
	42	Ajimganj ...	6,725	5,602	12,327	12	...	3	1	...
	43	Kandi ...	6,212	6,426	12,638	4	...	...	...	...
	44	Jangipur ...	5,493	5,915	11,408	21	...	...	...	...
Khulna	45	Khulna ...	7,983	5,013	12,996	7	...	...	...	...
	46	Satkhira ...	5,802	5,100	10,902	...	...	1	...	...
Rajshahi	47	Rampur-Boalia ...	13,057	10,349	23,406	42	2	...	...	...
Dinajpur	48	Dinajpur ...	9,648	6,297	15,945	10	...	3	...	...
Jalpaiguri	49	Jalpaiguri ...	7,547	4,218	11,765	16	...	...	...	...
Darjeeling	50	Darjeeling ...	11,631	7,374	19,005	17	...	...	...	...
Rangpur	51	Rangpur ...	10,509	5,920	16,429	16	...	...	...	...
Pabna	52	Pabna ...	10,056	9,218	19,274	12	...	...	...	...
	53	Sirajganj ...	13,236	11,541	24,777	13	1	4	...	...
Malda	54	English Bazar ...	7,697	6,625	14,322	8	...	...	1	...
	55	Nawabganj ...	11,122	12,200	23,322	18	...	...	...	...
Dacca	56	Dacca ...	68,091	45,460	108,551	244	17	7	4	...
	57	Narayanganj ...	18,738	9,138	27,876	54	1	...	...	...
Mymensingh	58	Mymensingh ...	13,462	6,391	19,853	13	...	4	...	...
	59	Netrakona ...	8,018	5,722	13,740	16	...	...	...	...
	60	Jamalpur ...	11,728	9,381	21,109	24	...	3	...	...
	61	Sherpur ...	8,516	7,075	15,591	25	...	...	...	...
	62	Kishoreganj ...	9,508	8,518	18,026	24	...	1	...	...
	63	Bajitpur ...	5,447	5,386	10,833	11	...	...	...	...
Faridpur	64	Tangail ...	8,493	7,869	16,362	27	2	...	...	...
	65	Faridpur ...	8,017	5,114	13,131	27	...	...	...	...
Bakarganj	66	Madaripur ...	10,549	8,524	19,073	31	...	...	4	...
	67	Barisal ...	15,488	6,985	22,473	16	...	1	...	...
Chittagong	68	Pirojpur ...	6,523	5,473	11,996	16	...	1	...	...
	69	Chittagong ...	18,779	9,987	28,766	80	2	12	...	...
Tippera	70	Comilla ...	13,706	8,986	22,692	16	...	...	...	...
	71	Brahmanbaria ...	11,671	10,624	22,295	39	...	...	2	...
	72	Chandpur ...	9,062	3,655	12,717	11	...	8	...	...
Total of month...			...	...	2,618,159	3,889	227	123	63	...
Total of corresponding month of previous year.			...	...	...	4,288	208	104	13	...
Increase + or decrease — ...			...	...	...	-399	+19	+19	+50	...

## REMARKS—

1. The above table is compiled from returns collected by the Municipalities and submitted to this office by the Civil Surgeons. Taken as a whole, the statistics are fairly complete, but in a few instances are obviously incomplete.
2. The vital statistics of Municipalities with a population of less than 10,000 have been excluded from this statement and incorporated in the statement of the smaller towns.
3. The birth and death ratios per 1,000 per annum have been omitted from this statement according to the Government of India, Education Department.

CALCUTTA.

The 4th December 1919.



*of Bengal for the month of September 1919—conold.*

REGISTERED.

Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries including suicide.	Other causes.	Total all causes.			Total of corresponding month of previous year.			No.	Town.
					Male.	Female.	Total.	Male.	Female.	Total.		
5	3	2	1	15	16	10	26	32	20	52	40	Berhampore.
13	1	1	...	...	4	11	15	18	27	45	41	Murshidabad.
10	...	3	1	7	12	13	25	18	10	28	42	Ajmaganj.
16	...	...	1	5	9	13	22	20	26	46	43	Kandi.
11	...	...	...	...	6	5	11	9	15	24	44	Jangipur.
19	3	...	...	1	9	14	23	9	2	11	45	Khulna.
...	...	1	...	...	2	...	2	8	14	22	46	Satkhira.
18	1	...	1	5	13	12	25	14	20	34	47	Rampur-Boalia.
7	4	4	1	9	24	4	28	4	5	9	48	Dinajpur.
9	4	21	...	10	32	12	44	15	6	21	49	Jalpaiguri.
1	5	7	...	8	13	8	21	15	14	29	50	Darjeeling.
4	2	7	...	5	10	8	18	13	7	20	51	Rangpur.
6	1	1	...	4	6	6	12	10	8	18	52	Pabna.
8	1	...	1	7	13	8	21	13	2	15	53	Sirajganj.
5	4	2	...	1	8	5	13	14	10	24	54	English-Bazar.
12	3	...	1	4	13	7	20	20	26	46	55	Nawabganj.
142	14	35	12	112	180	146	326	127	104	231	56	Dacca.
30	3	8	2	19	29	39	68	34	24	58	57	Narayanganj.
17	4	1	...	2	16	12	28	17	9	26	58	Mymensingh.
9	1	...	...	1	2	9	11	2	2	4	59	Netrokona.
23	...	3	1	10	26	14	40	28	17	45	60	Jamulpur.
12	...	1	1	8	11	11	22	17	11	28	61	Sherpur.
7	4	4	3	5	12	12	24	12	19	31	62	Kishoreganj.
3	...	...	...	1	1	3	4	9	5	14	63	Bajitpur.
10	...	...	1	3	5	9	14	10	15	25	64	Tangail.
6	3	1	...	7	14	3	17	23	15	38	65	Faridpur.
9	...	...	1	13	16	11	27	13	13	26	66	Madaripur.
18	...	4	...	11	23	11	34	6	9	15	67	Barisal.
2	2	2	...	1	6	2	8	4	5	9	68	Pirojpur.
26	8	5	1	19	38	33	71	21	15	36	69	Chittagong.
14	...	...	...	8	15	7	22	4	4	8	70	Comilla.
28	4	4	1	13	27	25	52	15	13	28	71	Brahmanbaria.
9	1	2	...	7	15	12	27	16	6	22	72	Chandpur.
1,756	609	815	114	1,709	2,905	2,284	5,189					
1,874	528	975	140	1,688	3,084	2,238	5,322	3,084	2,238	5,322		
-118	+81	-160	-26	+21	-179	+46	-133					

whole the table possesses a relative value, although the figures for individual towns probably only approximate to the actual in a proportion reported in the returns for districts—vide Bengal Government, Municipal Department, letter No. 1183an., dated the 8th February 1918. tion Department, letter No. 93, dated the 26th March 1918.

CHARLES A. BENTLEY,  
Sanitary Commissioner for Bengal.



**List of prices of articles of food in Calcutta for the week ending  
Saturday, the 20th December 1919.**

Name of article.	WHOLESALE PRICE PER MAUND.		RETAIL PRICE PER SEER.	
	From—	To—	From—	To—
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Rice—				
Balam, coarse ...	8 4 0	9 4 0	0 2 6	0 3 9
" medium ...	9 12 0	...	0 4 3	0 5 0
Patnai, coarse ...	8 0 0	8 10 0	0 3 0	0 3 6
" medium ...	9 0 0	9 6 0	0 3 9	0 5 0
Nagra, coarse ...	8 0 0	8 14 0	0 3 0	0 3 6
" medium ...	9 2 0	9 8 0	0 3 9	0 5 0
Dudbkalma ...	9 0 0	9 12 0	0 3 6	.....
Rangoon Boiled ...	.....	.....	0 2 6	0 3 6
Kajla ...	6 6 0	.....	0 3 0	.....
Wheat, Dudhia ...	7 8 0	.....	.....	.....
" Gangajali ...	.....	.....	.....	.....
" Jamali ...	7 0 0	7 4 0	.....	.....
Gram, Patnai (whole) ...	7 12 0	8 0 0	0 2 9	0 3 6
" dal ...	8 8 0	9 4 0	0 3 9	0 4 0
Mung, " (Hari) ...	11 0 0	12 0 0	0 6 0	0 8 0
" " (Krishna) ...	9 8 0	10 0 0	0 5 0	.....
Arhar " ...	8 4 0	10 3 0	0 3 6	0 5 0
Masur " (split) ...	7 6 0	8 4 0	0 3 3	0 4 6
" " (Khanri) ...	9 12 0	10 12 0	0 4 6	0 5 0
Kalai " ...	7 8 0	8 0 0	0 3 3	0 5 0
Salt ...	3 3 6	3 5 6	0 1 6	0 1 9
Sugar (Brown Java) ...	22 12 0	.....	0 9 0	0 10 0
Gur, Bheli ...	.....	.....	0 4 6	.....
" Bhursut ...	13 0 0	.....	0 6 0	0 7 0
Milk ...	10 0 0	12 0 0	0 3 0	0 5 0
Mustard oil ...	36 0 0	42 0 0	1 0 0	1 2 0
Flour (country) ...	9 8 0	10 8 0	0 4 0	0 5 0
Atta, No. 3 ...	9 4 0	} .....	0 3 6	0 5 0
" " 2½ ...	10 0 0			
" " B ...	10 4 0			
Snji ...	10 0 0	10 8 0	0 4 6	0 5 0
Ghee (Bhadwa, Matki, etc.) ...	98 8 0	99 0 0	2 10 0	2 12 0
" (Patiram, Khurja, Ruto, Etwa, better kind, etc.) ...	90 0 0	91 0 0	2 8 0	.....
" (Lalli, Etwa, Sagar, etc.) ...	86 0 0	87 0 0	2 6 0	.....
Maize ...	5 4 0	5 8 0	.....	.....
Potatoes ...	5 12 0	6 8 0	0 2 6	0 4 0
Patal ...	.....	.....	.....	.....
Brinjals ...	2 8 0	3 0 0	0 1 9	0 3 0
Onions ...	4 0 0	4 4 0	0 1 6	0 2 6
Fish, Rahu ...	16 0 0	20 0 0	0 11 0	0 12 0
Mutton (2nd class) ...	.....	.....	0 10 0	.....
Beef (2nd and 3rd classes) ...	.....	.....	0 3 0	0 5 0

N.B.—This is an abstract of prices of the following markets :—

*Wholesale.*—Chetla Hât, Ramkrishnapur Hât, Sealdah Fish and Milk Markets, Posta Bazar.  
*Retail.*—Sir Stuart Hogg Market, Orphanganj Market, Sobha Bazar, Nutan Bazar, Raja Babu's Bazar, Bow Bazar, Jogu Babu's Bazar, Taltolla Bazar.

S. C. GHOSH,

for President, Advisory Food Committee.

CALCUTTA, the 22nd December 1919.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 13th December 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
7th December ...	8 A.M.	Zero of gauge is at mean sea level.	40.95	39.61	B. M. on College step corrected, 64.93.
8th " ...	8 "		40.85	39.56	
9th " ...	8 "		40.70	39.51	
10th " ...	8 "		40.70	39.41	
11th " ...	8 "		40.60	39.41	
12th " ...	8 "		40.55	39.21	
13th " ...	8 "		40.40	39.11	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	...	Highest water-level	66.52 on 30th August 1918	...
Ditto	...	Lowest	41.70 on 21st April 1918	61.71
Record	...	Highest	69.25 on 26th August 1879	36.89
Do.	...	Ditto	69.08 on 9th September 1885	64.44
Do.	...	Ditto	68.30 on 26th August 1906	64.27
Do.	...	Ditto	68.21 on 26th August 1890	63.47
Do.	...	Lowest	37.03 on 25th April 1884	60.40
Do.	...	Ditto	38.18 on 14th-16th April 1883	32.82
Do.	...	Ditto	39.02 on 21st-22nd April 1897	38.32
Do.	...	Ditto	39.28 on 6th-7th May 1908	34.21
Do.	...	Ditto	...	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA.  
The 13th December 1919.

M. SEN GUPTA,  
Executive Engineer, Rajshahi Divn.

**Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra for the week ending 20th December 1919.**

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1919.					
14th December	7 A.M.	9.7	9.7	10.7	Zero is placed at mean sea-level. The bench mark for the gauge is on a pucca pillar between the passenger ghât and Chandpur ghât. Its reduced level is 22.41.
15th " ...	7 "	9.6	9.6	10.6	
16th " ...	7 "	9.6	9.6	10.6	
17th " ...	7 "	9.4	9.4	10.5	
18th " ...	7 "	9.2	9.2	10.5	
19th " ...	7 "	9.0	9.0	10.4	
20th " ...	7 "	8.9	8.9	10.3	

The previous year	...	Highest water-level	...	25.2 on 1st September 1918.
Ditto	...	Lowest	...	5.3 on 9th March 1918.
Record (H.F. in Brahmaputra and Ganges)	...	Highest	...	25.75 on 28th August 1910.
Record (average flood in Brahmaputra and Ganges)	...	Ditto	...	25.74 on 20th and 31st August 1893.
Record (H.F. in Brahmaputra and Ganges)	...	Ditto	...	25.66 on 11th to 17th and 31st August and on 1st to 3rd September 1889.
Record (H.F. in Brahmaputra only)	...	Ditto	...	25.66 on 31st July 1900.
Do.	...	Lowest	...	1.0 on 8th February 1914.
Do.	...	Ditto	...	2.42 on 13th March 1908.
Do.	...	Ditto	...	2.91 on 21st to 24th February and 8th to 9th March 1884.
Do.	...	Ditto	...	3.16 on 9th to 11th March 1885.
Do.	...	Ditto	...	3.16 on 16th, 17th and 29th to 31st March 1901.

FARIDPUR,  
The 21st December 1919.

R. K. GHOSE,  
for Subdivisional Officer, P. W. D., Faridpur.



## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffio on the Circular and Eastern Canals for the week ending Saturday, the 13th December 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 13TH DECEMBER 1919.			WEEK ENDING SATURDAY, THE 14TH DECEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	1,088	53,117	877	897	103,942	1,746
Jute ...	180	73,411°	939	101	56,008†	578
Firewood ...	54	26,400	392	129	76,575	1,220
Other articles ...	672	144,211	1,739	676	147,192	2,116
Total ...	1,994	297,139	3,947	1,808	383,717	5,660
Empty boats and rafts ...	603	...	1,762	535	...	1,681
GRAND TOTAL	2,597	297,139	5,709	2,338	383,717	7,341

° Weight by canal measurement ... Mds. 60,367½  
† Ditto ditto ... 60,435

CALCUTTA,  
The 22nd December 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.

## GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

*Approximate return of traffio on the Circular and Eastern Canals for the week ending Saturday, the 20th December 1919, as compared with the corresponding week of the previous year.*

Nature of Cargo.	WEEK ENDING SATURDAY, THE 20TH DECEMBER 1919.			WEEK ENDING SATURDAY, THE 21ST DECEMBER 1918.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	728	42,480	742	984	129,750	2,284
Jute ...	103	38,164°	513	91	46,529†	526
Firewood ...	46	26,775	387	104	60,675	947
Other articles ...	566	127,129	1,607	856	240,710	2,993
Total ...	1,443	234,548	3,249	2,015	477,664	6,750
Empty boats and rafts ...	415	...	1,303	568	...	1,152
GRAND TOTAL	1,858	234,548	4,552	2,583	477,664	7,902

° Weight by canal measurement ... Mds. 40,625  
† Ditto ditto ... 40,327½

CALCUTTA,  
The 23rd December 1919.

G. J. ST. C. SEDGLEY,  
Under-Secy. to the Govt. of Bengal.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 31, 1919.

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## DEPARTMENT OF AGRICULTURE, BENGAL.

### Forecast of the Winter *Til* (Sesamum) Crop of Bengal, 1919-20.

(NOTE.—On an average of the five years ending 1917-18, the area under *til* in Bengal has represented about 4·8 per cent. of the total area under *til* in British India.)

**Character of the season.**—Owing to uneven distribution of rainfall the weather at sowing time was, on the whole, unfavourable for the crop throughout the province. Subsequently conditions were rather better until the end of October; but continued drought since then has generally stunted the growth of the crop and, in many districts, considerably reduced the outturn in consequence. Insect-pests also caused some damage in places, especially in Rajshahi, Jalpaiguri, Nadia and Bogra. In Khulna, owing to excessive rain at sowing time, the crop could not be cultivated at all this year, and in Pabna about 3,000 acres were left unsown. On the whole, the season has not been better than last year.

**Acresage.**—The total area sown this year is estimated at 42,600 acres against 49,400 acres last year.

**Outturn.**—According to estimates of District Officers the outturn of the crop for the province as a whole works out at 68 per cent. of the normal against 62 per cent. last year. Taking  $6\frac{1}{2}$  maunds as the normal rate of yield per acre, the gross outturn for the province is estimated at 6,500 tons against 6,900 tons last year.

Dacca,

The 23rd December 1919.

R. S. FINLOW,

Offg. Director of Agriculture, Bengal.



## APPENDIX I.

Forecast of the winter *///* crop of Bengal, 1919-20.

District.	Estimated normal area under winter <i>///</i> .	Estimated area under winter <i>///</i> .		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which sowing generally began this year and whether that date was early, normal or late.	Date by which harvesting generally commenced this year and whether that date is early, normal or late.	Remarks by District Officers.
		Last year (1918-19).	This year (1919-20).	Last year.	This year.			
	Acre.	Acre.	Acre.					
24-Parganas ...	300	300*	300*	55	55	August. Normal...	Not yet commenced	The weather has not been favourable owing to untimely rainfall.
Nadia ...	5,300	900	1,000	43	50	July and August. Normal.	November. Normal.	The weather was not favourable at sowing time. Some damage was caused by insects and drought. Hence the outturn is expected to fall much below the normal.
Murshidabad ...	4,100	900	900	55	67	End of August to November, normal except Jangipur. Late.	Not yet commenced	The weather was not favourable at sowing time, but since then it is favourable. The outturn is anticipated below the normal owing to unfavourable weather at sowing time.
Jessore ...	1,400	900	1,100	42	52	August. Normal	November. Normal.	The increase in area is due to favourable weather at sowing time. Slight damage has been caused to the crop for want of rain in September. Hence the outturn is expected to fall below the normal.
Khulna ...	2,800	900	...	55	...	...	...	Owing to the excessive rain the cultivators could not sow the crop this year.
Burdwan ...	500	200	300	55	50	Beginning of September and October. Normal.	Not yet begun ...	The increase in area is due to favourable weather and to adoption of an assumed area for Asanul subdivision. The weather was fair, but has been dry later on. The outturn is much below the normal owing to deficient rainfall.
Birbhum ...	500	500*	500*	57	75	August. Normal	December ...	The weather and condition of the crop have been fair. The outturn is below the normal owing to want of timely rain.
Bankura ...	2,300	2,500	3,000	67	105	August. Normal	December. mid.	The increase in area is due to high price of oil and demand for oilseeds. The weather was quite favourable at sowing time but slight damage has been caused to crop owing to drought in October. The outturn is expected to be slightly above normal.
Midnapore ...	3,000	2,300	2,300	60	75	July. Normal ...	September. Normal.	The weather has not been favourable. The outturn is, therefore, expected to fall below the normal.
Hooghly ...	1,000	700*	700*	65	50	Middle of September. Normal.	End of November. Normal.	Owing to unfavourable weather the outturn has fallen much below the normal.
Howrah ...	100	(40)	(45)	53	53	Middle of October. Normal.	Middle of November. Normal.	Some damage has been done by drought. Hence the outturn is below the normal.
Rajahmali ...	2,700	600	1,100	50	50	Middle of September. Normal.	End of December. Normal.	The increase in area is due to the favourable condition of weather at sowing time and to high prices of oilseeds. The weather has been fair. Considerable damage has been caused by insect pest in Nagnon subdivision. Hence the outturn is expected to fall much below the normal.
Dinajpur ...	500	600*	600*	60	77	August to September. Normal.	Not yet commenced	The weather has been favourable at sowing time. Owing to inadequate rainfall the outturn is expected to fall below the normal.
Jalpaiguri ...	1,000	.....	300	.....	50	July. Normal.	November. Normal	The crop is not grown in this district to any appreciable extent. Some people of the Pakkata taluk in the Alipore subdivision have grown the crop this year only. The weather has been favourable. About half the crop has been damaged by insect-pests.
Rangpur ...	1,200	1,500*	1,500*	100	100	October. Normal.	Will begin from January.	The weather has been favourable and a normal outturn is expected.
Bogra ...	1,500	600	600	50	50	Middle of August. Normal.	Middle of November. Normal.	The weather was not favourable at sowing time, but the growth of the crop has been retarded owing to absence of rain. Some damage has been caused by insects. The outturn is therefore expected to fall much below the normal.

\* Conventional area.



District.	Estimated normal area under winter <i>W.</i>	Estimated area under winter <i>W.</i>		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which sowing generally began this year and whether that date was early, normal or late.	Date by which harvesting generally commenced this year and whether that date is early, normal or late.	Remarks by District Officers.
		Last year (1918-19).	This year (1919-20).	Last year.	This year.			
	Acre.	Acre.	Acre.					
Pabna ...	2,000	6,000	3,000	65	50	Middle of September. Normal.	End of December. Normal.	The decrease in area is due to the fact that about 3,000 acres could not at all be sown owing to rain in the early part of September. Hence the outturn is much below the normal.
Maida ...	1,800	1,800*	1,600	80	92	September. Normal.	December. Normal.	On the whole the weather was favourable at sowing time. The falling off of outturn below the normal is due to stunted growth owing to absence of rain since middle of October.
Dacca ...	3,900	4,800	3,900	72	75	End of August. Normal.	End of November. Normal.	Figures for normal area have been revised on the basis of settlement records. Want of rain at the sowing time did some damage to the crop.
Mymensingh ...	8,600	7,800	7,800	90	95	August and September. Normal.	December and January. Normal.	The weather and condition of the crop have been generally favourable.
Chittagong ...	300	300*	200*	90	700	August. Normal.	November. Normal.	The weather has been good.
Tippura ...	3,300	1,400	1,400	60	75	October. Normal.	Not yet commenced.	The weather has not been quite favourable. Some damage has been done by insects. Hence the outturn is expected to be below the normal.
Chittagong Hill Tracts.	12,000	10,600	10,600	35	33	Last week of May. Late.	Middle of November. Normal.	The weather and condition of the crop have not been favourable. The outturn is expected to be poor.
Total Bengal	73,300	49,400	43,600	63	63			

\* Conventional area.

## APPENDIX II.

Abstract Statement of estimated acreage and outturn of the winter *W.* crop of Bengal for 1919-20.

Province.	AREA (IN ACRES).						YIELD (IN TONS).					
	Of current year's crop (1919-20).	Of previous year's crop (1918-19).	Average of preceding—	Percentage by which column 2 exceeds (+), or is less than (-), area in—		Estimated yield of current year, i.e., of area in column 2.	Yield of previous year, i.e., of area in column 3.	Average of preceding—	Percentage by which column 7 exceeds (+), or is less than (-), yield in—			
				Column 3.	Column 4.				Column 8.	Column 9.		
1	2	3	4	5	6	7	8	9	10	11		
			Five years. Ten years.	Five years. Ten years.	Five years. Ten years.			Five years. Ten years.	Five years. Ten years.	Five years. Ten years.		
Bengal ...	42,600	49,400	55,800 73,900	- 14 - 23	44	6,300	4,800	7,300 10,700	- 8 - 10	- 39		



## DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 25th December 1919.

**Summary.**—There was no rainfall during the week. Harvesting of winter paddy and sugarcane is in full swing. Condition and prospects of standing crops are reported to be promising. The average price of common rice for the Province has fallen by about 3·27 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEEDS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS	Nil	{ 5 6½*	{ 5 6½*	Harvesting of sugarcane and <i>aman</i> paddy continues. Water is sufficient. Prospects of standing crops are good.
	Diamond Harbour.	(n)	(n)	(n)	
	Barrackpore	Nil	{ 4½ 6*	{ 4½ 6*	
	Barasat ...	Nil	5½	5½	
	Basirhat ...	Nil	{ 6½ 5½*	{ 6½ 5½*	
2	NADIA ...	Nil	{ 5½ 6½*	{ 5½ 6½*	Prospects of standing crops are favourable. Harvesting of <i>aman</i> paddy continues.
	Kushtia ...	(n)	(n)	5	
	Meherpur ...	Nil	5½	5½	
	Chnadanga ...	(n)	(n)	{ 5½ 6*	
	Ranaghat ...	Nil	5½	5	
3	MURSHIDABAD	Nil	6½†	6½†	Prospects of standing crops are fair. Harvesting of winter rice continues. Fodder is sufficient. No large import or export of rice. Burma rice is not available.
	Lalbagh. ...	Nil	6½†	6½†	
	Jangipur ...	Nil	6½†	6½†	
	Kandi ...	Nil	6½†	6½†	
4	JESSORE ...	Nil	{ 6 6*	{ 6 6*	Standing crops are doing well. Harvesting of <i>aman</i> paddy continues. No large import or export of rice. Fodder is sufficient.
	Jhenidah ...	Nil	6	(n)	
	Magura ...	Nil	6	{ 6 6*	
	Narail ...	Nil	{ 6½ 6*	{ 5½ 6*	
	Bangaon ...	Nil	5½†	5½†	
5	KHULNA ...	Nil	7½	6½	Weather seasonable. Harvesting of <i>aman</i> paddy is going on. Large export of rice is going on in Bagerhat subdivision. Fodder and water are sufficient.
	Satkhira ...	Nil	{ 5½ 7* <sup>5</sup> <sub>6</sub>	{ 5½ 7* <sup>5</sup> <sub>6</sub>	
	Bagerhat ...	Nil	{ 6 7*	{ 6 6½	

\* Burma rice.

† Coarse rice.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE IN SEERS, PER MUPKE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
6	BURDWAN ...	Nil	5½	5	Weather seasonable. Harvesting of <i>aman</i> paddy continues. Condition of standing crops is fair.
	Asansol ...	Nil	6½	6½	
	Katwa ...	Nil	6	5½	
	Kalna ...	Nil	5	5	
7	BIRBHUM ...	Nil	6½	6½	Harvesting of winter rice continues. Prospects of standing crops are fair. Fodder and water are sufficient.
	Rampurhat...	Nil	6½	6½	
8	BANKURA ...	Nil	6½	6	Harvesting of <i>aman</i> paddy continues. Prospects of standing crops are good. Export of rice and paddy continues.
	Vishnupur...	Nil	6½	6½	
9	MIDNAPORE	Nil	{ 6½ <sup>2</sup> 6½ <sup>1</sup> 6½ <sup>0</sup> }	{ 5½ <sup>2</sup> 6½ <sup>1</sup> 6½ <sup>0</sup> }	Prospects of sugarcane are fair. Harvesting of winter rice continues. Fodder is sufficient.
	Ghatal ...	Nil	{ 5 5½ <sup>1</sup> }	(n)	
	Tamluk ...	Nil	{ 5½ <sup>1</sup> 5½ <sup>0</sup> 6½ <sup>0</sup> }	{ 5 5½ <sup>1</sup> 6½ <sup>0</sup> }	
	Contai ...	Nil	{ 6½ <sup>1</sup> 7 <sup>1</sup> }	{ 6½ <sup>1</sup> 7 <sup>1</sup> }	
10	HOOGHLY ...	Nil	{ 4½ <sup>1</sup> 5½ <sup>1</sup> 5½ <sup>0</sup> }	{ 4½ <sup>1</sup> 5½ <sup>1</sup> 5½ <sup>0</sup> }	
	Serampore ...	Nil	{ 5½ <sup>1</sup> 6 <sup>0</sup> }	{ 5½ <sup>1</sup> 6 <sup>0</sup> }	Effects of weather on the growth of the crops are favourable. Fodder is sufficient.
	Arambagh ...	Nil	6½	6½	
11	HOWRAH ...	Nil	5½	{ 4½ <sup>1</sup> 6½ <sup>1</sup> }	
	Ulubaria ..	Nil	{ 4½ <sup>1</sup> 6½ <sup>1</sup> 6½ <sup>0</sup> }	{ 4½ <sup>1</sup> 6½ <sup>1</sup> 6½ <sup>0</sup> }	Weather cold. Harvesting of <i>aman</i> paddy and planting of sugarcane continue. Prospects of sugarcane and <i>rabi</i> crops are fair. Fodder is sufficient.
12	RAJSHAHI (RAMPUR-BOALIA).	Nil	6½	6½	
	Naogaon ...	Nil	6½	6½	Prospects of standing crops are favourable. Harvesting of winter rice continues. Fodder is sufficient.
	Nator ...	Nil	{ 6 7 <sup>0</sup> }	{ 6 7 <sup>0</sup> }	
13	DINAJPUR ...	Nil	6½	5½	Prospects of standing crops are fair. Market of rice is stationary.
	Thakurgaon	Nil	7	5½	
	Balurghat ...	Nil	7½	7½	
14	JALPAIGURI...	Nil	6	5	Prospects of standing crops are fair. Fodder and water are sufficient.
	Alipur ...	Nil	5	{ 5 6 <sup>0</sup> }	

\* Burma rice.

† Coarse rice.

‡ And rice.

§ New.

(n) Not reported.



Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
15	DARJEELING	Nil	{ 4½ 5½ }	4½	Winter paddy and <i>marua</i> are being harvested. Potatoes, wheat and barley are growing up. Stock of rice is sufficient. Fodder and water are sufficient.
	Kurseong ...	Nil	{ 5 5½ }	5	
	Siliguri ...	Nil	5½	5½	
	Kalimpong...	Nil	{ 5 5½ }	5	
16	RANGPUR ...	Nil	6½	5½	Weather seasonable. Harvesting of winter rice and potatoes is going on. Prospects of standing crops are good. Price of rice is falling owing to appearance of new rice. Fodder and water are sufficient.
	Nilphamari	Nil	6½	(n)	
	Kurigram ...	Nil	6	5½	
	Gaibandha ...	Nil	5½	5½	
17	BOGRA ...	Nil	6½	6½	Harvesting of winter rice continues. Prospects are fair.
18	PABNA ...	Nil	{ 6 6° }	{ 5½ 5½† 6° }	Fodder is sufficient.
	Sirajganj ...	Nil	{ 4 5½ }	4 5½	
19	MALDA ...	Nil	6½	6½	Harvesting of winter rice continues. Fodder and water are sufficient. Cattle-disease is reported from Gomastapur and Harishchandrapur thanas.
20	COOCH BEHAR	Nil	6½	6½	Weather seasonable. Harvesting of <i>haimantic</i> paddy continues. Condition of standing crops is favourable. Fodder and water are sufficient. Burma rice is not available.
21	DACCA ...	(n)	{ 6 6° }	6 6°	Weather seasonable and favourable for the growth of <i>rabi</i> crops. Harvesting of winter rice is completed. Prospects of <i>rabi</i> crops are fair.
	Manikganj ...	Nil	{ 6½ 6° }	5 5½	
	Narayanganj	Nil	{ 6 6½ }	6 6°	
	Munshiganj (a)	Nil	{ 6½ 6½ }	6½ 6½	
22	MYMENSINGH	Nil	{ 5½ 5½ }	5½ 5½	Weather seasonable. Harvesting of winter rice and transplantation of <i>boro</i> paddy are going on. Prospects of crops are good. Fodder and water are sufficient.
	Jamalpur ...	Nil	{ 5 6½ }	5 6½	
	Tangail ...	(n)	(n)	{ 5½ 5° }	
	Netrakona ...	Nil	6½	4½	
	Kishorganj...	Nil	{ 6½ 6½ }	6½ 6½	

(n) Not reported.

° Burma rice.

† New.

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.



Serial No.	Districts and subdivisions.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches			
23	FARIDPUR ...	Nil	{ 6 6½	{ 5 6½	Effects of weather are favourable to crops. Harvesting of <i>aman</i> paddy is nearly finished. Prospects of standing crops are fair. Fodder is available.
	Goalundo ...	Nil	{ 6 6½	{ 6 6	
	Madaripur ...	Nil	{ 6½ 6¾	{ 6½	
	Gopalganj(a)	Nil	{ 6½ 6½	{ 6 6½	
24	BAKARGANJ (BARISAL).	Nil	{ 6½ 6½ 8	{ 4 6½ 6½	Fodder is sufficient. Prospects of standing crops are good.
	Pirojpur ...	Nil	{ 4½ 6½	{ (n)	
	Patuakhali ...	Nil	{ 4½ 6½ 8	{ 4½ 7½ 8	
	Dakshin Shabazpur (Bhola).	Nil	{ 4½ 5½	{ 4 5½	
25	CHITTAGONG	Nil	{ 6½ 6½	{ 6½ 6½	Prospects of standing crops are fair. Cultivation of <i>rabi</i> crops and harvesting of <i>aman</i> paddy are in progress. <i>Panga</i> salt is selling at 10 and 9 seers per rupee both at Sadar and Cox's Bazar, respectively. Fodder is sufficient.
	Cox's Bazar	Nil	{ 6½ 6½	{ 6½ 6½	
26	TIPPERA (COMILLA).	Nil	6½	7½	Harvesting of <i>aman</i> paddy is nearly finished and its outturn is hopeful. <i>Rabi</i> crops are thriving and the prospects are fair. No large import or export of rice.
	Brahmanbaria.	Nil	{ 6½ 5½	{ 6½ 6½	
	Chandpur ...	Nil	{ 6½ 6½	{ 6 6½	
27	NOAKHALI ...	Nil	5½	5½	Prospects of standing crops are fair. Fodder is sufficient. Cattle-disease is reported from thanas Chhagalnaya and Pashuram.
	Feni ...	Nil	6½	6½	
28	CHITTAGONG HILL TRACTS.	Nil	{ 6 7½	{ 5 6½	Weather cloudy. Harvesting of <i>aman</i> paddy has begun and that of cotton crop is in progress. Outturns are fair. Fodder is sufficient.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

\* Burma rice.

† Local rice.

§ New.

(n) Not reported.

J. C. ROY,

for Director of Agriculture, Bengal.

DACCA, the 29th December 1919.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of December 1919.**

Marts.	PADDY (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914. <sup>c</sup>
	1	2	3	4	5	6	7
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 8 0	4 8 0	3 8 0	3 0 0	3 2 0	4 2 0	5 0 0
Chetta Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 14 0	4 14 0	3 2 0	2 4 0	2 2 0	3 12 0	...
Kalna ...	...	...	...	...	to 3 0 0	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	(B) 3 12 0	4 4 0	3 0 0	1 12 0	2 2 0	3 8 0	...
Chittagong ...	3 4 0	(c)	2 10 0	(c)	to 2 11 0	3 2 0	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 2 0	5 12 0	3 2 0	2 0 0	3 4 0	3 2 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	4 4 0	5 0 0	3 5 0	1 12 0	2 13 0	3 0 0	...
Sirajganj ...	(B)	...	...	...	...	...	...
Rangpur ...	4 8 0	6 0 0	3 0 0	2 0 0	3 12 0	3 0 0	...

\* Figures not available.

(c) No sale.

Marts.	PADDY (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	9	10	11	12	13	14	15
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 0 0	4 0 0	3 0 0	2 8 0	2 13 0	3 14 0	...
Chetta Hat ...	...	...	...	...	...	...	...
Burdwan ...	4 12 0	4 12 0	2 11 0	1 11 0	2 4 0	3 8 0	...
Kalna ...	...	...	...	...	to 3 0 0	...	...
Raiganj ...	...	...	...	...	...	...	...
Midnapore ...	(B) 3 0 0	4 2 0	2 12 0	1 3 0	2 0 0	2 4 0	...
Chittagong ...	3 4 0	(c)	2 10 0	(c)	to 2 0 0	3 0 0	3 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	5 0 0	5 0 0	2 14 0	1 12 0	3 0 0	3 0 0	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	(B) 3 12 0	4 3 0	3 0 0	...	2 11 0	2 12 0	3 5 3
Sirajganj ...	(B)	...	...	...	...	...	...
Rangpur ...	3 2 0	5 0 0	2 3 0	2 0 0	3 0 0	2 4 0	3 0 0

(B) New.

(c) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of December 1919.**

Marts.	RICE (BEST QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	16	17	18	19	20	21	22
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	8 0 0	7 0 0	7 2 0	6 4 0	7 8 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	8 0 0	8 2 0	8 0 0	5 0 0	5 0 0	8 0 0	6 0 0
Kalna ...	...	...	...	...	to 8 0 0	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	10 0 0	10 0 0	(a) ...	5 4 0	4 4 0	7 8 0	5 12 0
Chittagong ...	12 0 0	12 0 0	10 0 0	7 0 0	to 6 0 0	10 0 0	10 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	10 0 0	10 8 0	8 0 0	4 12 0	5 12 0	6 10 0	6 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	9 0 0	9 0 0	7 8 0	5 0 0	5 0 0	3 0 0	3 0 0
Sirajganj ...	(R)	...	...	...	...	...	...
Rangpur ...	8 0 0	12 0 0	7 0 0	6 0 0	7 8 0	6 4 0	7 4 0

Marts.	RICE (COMMON QUALITY).						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	23	24	25	26	27	28	29
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	6 4 0	5 0 0	6 0 0	7 8 0	6 0 0
Chetla Hat ...	...	...	...	...	...	...	...
Burdwan ...	to 6 8 0	to 6 8 0	6 8 0	3 8 0	3 12 0	5 4 0	5 0 0
Kalna ...	to 7 0 0	to 7 0 0	...	...	to 4 4 0	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	7 8 0	7 8 0	(a) ...	3 8 0	3 12 0	4 10 0	5 4 0
Chittagong ...	6 0 0	6 0 0	5 8 0	to 4 2 0	to 5 0 0	4 8 0	5 0 0
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	(R)	...	...	...	...	...	...
Dacca ...	8 14 0	9 8 0	7 12 0	3 8 0	5 0 0	5 10 0	5 4 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	7 8 0	7 11 0	5 6 0	3 4 0	4 12 0	5 10 0	5 5 0
Sirajganj ...	(R)	...	...	...	...	...	...
Rangpur ...	7 0 0	10 12 0	4 8 0	4 8 0	5 12 0	5 0 0	6 0 0

(R) New.

(a) Not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of December 1919.**

Marts.	WHEAT.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	30	31	32	33	34	35	36
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 0 0	8 0 0	7 4 0	5 0 0	4 14 0	5 2 0	5 12 0
Ohelia Hât	.....	.....	.....	.....	.....	.....	.....
Burdwan	7 12 0	7 12 0	(a)	5 2 0	5 0 0	5 0 0	.....
Kalna	.....	.....	.....	.....	.....	.....	.....
Raiganj	.....	.....	.....	.....	.....	.....	.....
Midnapore	8 4 0	8 0 0	8 0 0	5 12 0	5 0 0	6 0 0	.....
Chittagong	.....	.....	.....	.....	.....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	.....	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....
Medanipur	.....	.....	.....	.....	.....	.....	.....
Pabna	7 5 0	6 11 0	.....	4 0 0	4 0 0	5 0 0	4 14 0
Sirajganj	.....	.....	.....	.....	.....	.....	.....
Rangpur	7 0 0	7 0 0	6 0 0	5 0 0	5 3 0	5 4 0	5 0 0

(a) Not in stock.

Marts.	KALAI DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.*
	37	38	39	40	41	42	43
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	8 8 0	8 8 0	10 0 0	5 8 0	5 6 0	5 14 0	.....
Ohelia Hât	.....	.....	.....	.....	.....	.....	.....
Burdwan	8 0 0	8 0 0	12 8 0	5 0 0	5 4 0	5 12 0	.....
Kalna	.....	.....	.....	.....	.....	.....	.....
Raiganj	.....	.....	.....	.....	.....	.....	.....
Midnapore	9 0 0 to 10 0 0	8 8 0 to 10 8 0	8 8 0 to 11 0 0	6 0 0	5 8 0	4 8 0	.....
Chittagong	.....	.....	.....	.....	.....	.....	.....
Chandpur	.....	.....	.....	.....	.....	.....	.....
Dacca	.....	.....	.....	.....	.....	.....	.....
Narayanganj	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....
Medanipur	.....	.....	.....	.....	.....	.....	.....
Pabna	.....	.....	.....	.....	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....
Rangpur	10 0 0	10 0 0	7 0 0	7 0 0	7 8 0	6 8 0	.....

\* Figures not available.



**Wholesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bengal for the first-half of December 1919.**

Marts.	GRAM.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	44	45	46	47	48	49	50
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	7 8 0	7 8 0	5 0 0	3 8 0	3 8 0	3 14 0	4 12 0
Obetta Hat ...	...	...	...	...	...	...	...
Burdwan ...	6 12 0 to 7 8 0	6 12 0 to 7 8 0	5 6 0	3 0 0	3 14 0	4 4 0	5 8 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	8 0 0 to 9 0 0	8 0 0 to 9 4 0	5 12 0 6 8 0	3 14 0 4 4 0	4 12 0 5 0 0	4 11 0 5 0 0	...
Ohittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	...	...	...	...	...	...	...
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	...	...	...	...	...	...	...
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	7 8 0	7 8 0	7 8 0	5 4 0	7 10 0	7 8 0	...

Marts.	ARHAR DAL.						
	Present return.	Next preceding return.	Corresponding return of 1918.	Corresponding return of 1917.	Corresponding return of 1916.	Corresponding return of 1915.	Corresponding return of 1914.
	51	52	53	54	55	56	57
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	9 8 0	9 8 0	7 12 0	5 0 0	5 4 0	6 8 0	6 8 0
Obetta Hat ...	...	...	...	...	...	...	...
Burdwan ...	9 12 0	9 12 0	8 8 0	4 8 0	5 0 0	6 12 0	6 4 0
Kalna ...	...	...	...	...	...	...	...
Raniganj ...	...	...	...	...	...	...	...
Midnapore ...	11 0 0 to 12 0 0	11 0 0 to 12 0 0	8 8 0 9 0 0 10 0 0	5 0 0 6 8 0	7 0 0	7 10 0	...
Ohittagong ...	...	...	...	...	...	...	...
Chandpur ...	...	...	...	...	...	...	...
Dacca ...	9 0 0	9 0 0	8 0 0	4 12 0	6 0 0	7 8 0	6 8 0
Narayanganj ...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...
Madaripur ...	...	...	...	...	...	...	...
Pabna ...	13 0 0	12 0 0	9 0 0	6 0 0	6 0 0	8 0 0	8 0 0
Sirajganj ...	...	...	...	...	...	...	...
Rangpur ...	(a)	(a)	7 0 0	5 0 0	7 8 0	6 12 0	6 4 0

(a) Not available.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of December 1919.**

Marts.	LINSEED.			MUSTARD.			GUR.			COTTON (UNGINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	58	59	60	61	62	63	64	65	66	67	68	69
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	13 0 0	9 0 0	12 8 0	12 8 0	9 0 0	10 8 0	10 8 0	6 4 0	25 0 0	25 0 0	37 0 0
Chetla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	11 0 0	11 0 0	(a).....	12 0 0	12 0 0	12 8 0	6 0 0	6 0 0	8 8 0	(a).....	(a).....	12.....
	to 12 0 0	to 12 0 0		to 14 8 0	to 14 8 0		to 8 0 0	to 8 0 0				
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raiganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	12 0 0	10 0 0	10 0 0	14 8 0	14 8 0	11 8 0	11 0 0	11 0 0	7 12 0	40 0 0	40 0 0	70 0 0
				to 15 0 0	to 15 0 0	to 12 0 0						
Chittagong	15 0 0	15 0 0	10 0 0	13 8 0	13 0 0	8 8 0	12 0 0	12 0 0	8 8 0	14 0 0	14 0 0	8 0 0
Chandpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	17 0 0	17 8 0	12 0 0	11 8 0	12 0 0	12 0 0	14 0 0	15 0 0	9 8 0	.....	.....	.....
Naryanganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mymensingh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madaripur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabna	(a)	15 0 0	8 0 0	13 8 0	13 8 0	11 0 0	10 10 0	10 10 0	.....	.....	.....	.....
Sirajganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rangpur	(a).....	(a).....	.....	13 0 0	13 0 0	7 8 0	11 8 0	12 0 0	8 0 0	.....	.....	.....

Marts.	JUTE.			GRAM.			HIDEA (COW).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	70	71	72	73	74	75	76	77	78
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	12 0 0	12 0 0	12 0 0	78 0 0	78 0 0	70 0 0	450 0 0	Per 100 pieces. 450 0 0	450 0 0
Chetla Hat	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burdwan	(a).....	(a).....	(a).....	88 0 0	93 0 0	68 0 0	(a).....	(a).....	40 0 0
Kalna	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raiganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	5 4 0	5 4 0	7 0 0	95 0 0	88 0 0	75 0 0	450 0 0	Cleaned pieces per 100. 450 0 0	275 0 0
				to 110 0 0	to 95 0 0	to 80 0 0			
Chittagong	.....	.....	.....	90 0 0	90 0 0	75 0 0	425 0 0	Uncleaned pieces per 100. 425 0 0	250 0 0
Chandpur	3 4 0	3 8 0	6 8 0	.....	.....	.....	.....	.....	.....
	to 10 8 0	to 10 8 0	to 10 8 0						
Dacca	.....	.....	.....	90 0 0	79 0 0	68 0 0	.....	.....	.....
Naryanganj	4 0 0	4 0 0	5 8 0	.....	.....	.....	.....	.....	.....
	to 8 0 0	to 8 0 0	to 10 0 0						
Mymensingh	4 8 0	4 0 0	8 0 0	.....	.....	.....	.....	.....	.....
	to 10 8 0	to 10 0 0	to 10 0 0						
Madaripur	4 0 0	3 12 0	3 4 0	.....	.....	.....	.....	.....	.....
	to 10 0 0	to 11 4 0	to 10 8 0						
Pabna	.....	.....	.....	76 0 0	76 0 0	107 0 0	.....	.....	.....
Sirajganj	4 0 0	4 0 0	5 0 0	.....	.....	.....	Per piece. 4 0 0	Per piece. 4 0 0	Per piece. 4 0 0
	to 8 0 0	to 8 0 0	to 7 0 0						
Rangpur	8 0 0	8 0 0	8 0 0	72 0 0	72 0 0	65 0 0	.....	.....	.....

(a) Not available.

(b) No sale.



**Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the first-half of December 1919,**

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	79	80	81	82	83	84	85	86	87
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	9 0 0	9 0 0	36 0 0	3 6 0	3 6 0	3 10 0	3 15 0(a)	3 15 0(a)	3 2 0
Chitta Hat									
Bardwan	17 8 0	16 8 0	12 0 0 to 23 0 0	3 8 0	3 3 0	3 8 0	3 2 0(b)	3 2 0(b)	3 5 0
Kalna									
Raigangj									
Midnapore	3 0 0 to 17 0 0	3 0 0 to 13 0 0	3 0 0 to 20 0 0	3 10 0	3 10 0	3 10 0	4 2 0(d)	4 2 0(d)	
Chittagong	20 0 0	20 0 0	28 0 0	3 11 0	4 0 0	3 8 0	3 6 0(d)	3 0 0(c)	2 4 0
Chandpur									
Dacca				4 0 0	4 0 0	4 8 0	4 2 0(d)	4 2 0(d)	4 8 0
Narayanganj									
Mymensingh									
Nadarpur									
Patna	16 0 0 to 18 0 0	16 0 0 to 18 0 0	18 0 0 to 27 0 0	4 0 0	4 0 0	4 4 0	4 3 0(d)	4 3 0(d)	3 12 0
Sirajganj									
Saugor	22 0 0	22 0 0	22 0 0	4 0 0	4 0 0	4 8 0	4 4 0(h)	4 4 0(h)	4 10 0

(a) Monkey brand. | (b) Hsing Muu. | (c) Mosque. | (d) Elephant. | (h) Gold Mohur.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	88	89	90	91	92	93	94	95	96
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	35 0 0	35 0 0	24 0 0	0 8 0	0 8 0	0 8 0			
Chitta Hat							0 8 0	0 8 0	0 8 0
Bardwan	34 0 0	34 0 0	22 0 0	0 8 0	0 8 0	0 8 0	0 7 0	0 7 0	0 9 0
Kalna							0 8 0	0 8 0	0 8 0
Raigangj							0 1 0	0 1 0	0 3 3
Midnapore	40 0 0 to 41 0 0	40 0 0 to 41 0 0	38 0 0	0 7 0	0 7 0	0 7 0			
Chittagong	40 0 0	40 0 0	35 0 0						
Chandpur									
Dacca	37 8 0	39 0 0	34 0 0						
Narayanganj									
Mymensingh									
Nadarpur									
Patna	37 0 0	38 0 0	30 0 0						
Sirajganj									
Saugor	37 0 0	40 0 0	25 0 0						

DACCA,

The 27th December 1919.

J. C. ROY,

for Director of Agriculture, Bengal.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of December 1919.**

		QUANTITY PER RUPEE IN SEERS OF EIGHTY TOLAS.															
Number.	DISTRICTS AND MANB.	COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURR. CADJAN PNA ( <i>Cajanus indicus</i> ).			SALT.			
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.										
24-PARGANAS.		S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.	S. Or.
1	Chota Hat ...	4 4	4 8	6 0	5 0	5 0	6 6	4 8	4 8	4 0	4 0	4 0	4 8	10 10	10 10	10 0	
2	Magra Hat ...	5 12	5 1	6 4	6 0	5 12	7 4	(a)	(a)	(a)	3 12	3 10	4 7	10 12	10 12	11 4	
3	Calcutta-Bellaghata	4 12	4 12	5 0	5 6	6 6	7 4	4 7	4 7	3 12	4 0	4 0	5 0	10 0	10 0	10 0	
NADIA.																	
4	Gauri ...	5 11	5 11	6 4	6 6	6 6	7 0	3 8	3 4	4 0	3 8	3 4	4 0	12 0	12 0	10 0	
5	Ranaghat ...	5 0	4 8	6 8	6 6	5 12	7 0	3 2	3 2	3 4	3 2	3 2	3 4	10 8	10 8	9 0	
MURSHIDABAD.																	
6	Berhampur ...	6 0	5 12	6 12	6 4	6 0	7 0	5 0	5 0	4 0	5 0	4 0	5 0	12 0	12 0	9 0	
7	Kandi ...	6 0	5 0	6 4	6 0	5 12	6 8	5 0	4 4	4 0	4 0	4 0	5 2	10 8	10 8	10 8	
8	Jangipur ...	6 8	5 8	7 4	7 4	6 8	7 12	3 8	3 8	5 8	3 8	3 8	7 0	13 8	13 0	9 0	
JAMSHEDPUR.																	
9	Sader ...	4 0	3 0	5 12	6 0	6 0	8 0	2 8	2 8	4 8	3 0	3 0	4 0	11 4	11 4	10 0	
10	Bargaon ...	5 11	4 2	7 0	6 2	5 15	8 0	2 11	2 11	4 0	3 9	3 9	4 0	11 4	11 4	10 12	
KHULNA.																	
11	Sader ...	5 8	4 4	6 0	5 8	4 4	6 8	3 8	3 8	6 0	3 8	3 8	4 8	10 4	10 4	9 0	
12	Bagerhat ...	5 12	5 4	7 8	6 10	6 10	6 0	5 0	5 0	5 4	3 10	3 10	5 4	9 0	9 0	9 0	
BURDWAN.																	
13	Sader ...	5 4	5 0	6 4	5 8	5 8	7 8	4 8	4 8	3 0	3 12	3 12	4 8	10 8	10 8	10 10	
14	Kalna ...	4 9	4 9	6 4	5 0	4 12	6 10	3 10	3 10	5 0	3 10	3 10	4 0	10 0	10 0	10 8	
BIRBHUM.																	
15	Suri ...	6 0	6 12	6 8	6 8	7 0	7 8	5 8	6 0	4 0	3 12	3 8	5 0	12 0	12 0	10 0	
16	Rampur Hat (n) ...	...	6 0	7 0	...	7 0	7 8	...	6 0	3 0	...	3 8	6 0	...	10 0	11 0	
BANKURA.																	
17	Sader ...	5 4	5 4	7 0	5 8	6 8	7 8	5 8	5 8	4 0	4 0	4 0	5 0	11 0	11 0	10 8	
18	Vishnupur ...	6 8	6 8	7 8	7 8	7 4	8 0	4 2	4 4	5 0	3 4	3 4	4 8	10 8	10 8	11 0	
MIDNAPORE.																	
19	Sader ...	6 0	6 0	(a)	6 11	6 5	(a)	3 4	3 4	4 0	3 4	3 4	4 8	10 8	10 0	9 0	
20	Contai ...	6 8	4 8	7 8	7 0	5 8	8 0	3 0	3 0	7 8	3 0	3 0	7 0	10 8	12 0	10 0	
HOOGHLY.																	
21	Sader ...	4 12	4 8	6 0	5 4	5 0	6 12	4 0	4 0	4 0	3 12	3 8	5 0	11 0	10 12	11 0	
22	Arambath ...	6 2	5 12	7 8	6 6	6 0	7 10	3 4	3 4	4 0	3 4	3 4	5 0	10 10	10 10	9 0	
HOWRAH.																	
23	Sader ...	5 4	5 4	6 0	7 8	6 0	6 0	4 8	4 8	4 0	4 0	4 0	4 12	11 0	11 0	10 0	
24	Ulubaria ...	4 8	4 8	6 8	5 8	5 10	7 0	4 0	4 0	4 0	3 10	3 10	3 8	11 8	11 8	11 4	
RAJSHAH.																	
25	Rampur-Besla ...	6 6	5 10	6 12	6 8	6 0	7 8	5 4	4 8	4 8	3 8	3 8	5 4	9 12	9 12	8 0	
26	Nater ...	6 0	4 14	7 8	6 6	5 4	8 0	4 0	4 0	6 0	4 0	4 0	7 8	9 8	9 8	8 0	
27	Dinajpur-Railway Bazar Hat.	4 12	4 12	7 12	5 8	5 8	8 8	3 12	3 12	4 12	3 8	3 8	5 8	10 0	10 0	8 0	
28	Jalpaiguri-Sader ...	6 8	4 4	6 0	7 8	5 0	10 8	4 0	4 0	5 4	3 12	3 12	5 4	9 8	9 8	8 0	

• Karkatch.

(a) Not available.

(n) Not reported.



**Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the first-half of December 1919—concl.**

DIVISION.	DISTRICTS AND MARKS.	QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.														
		COMMON RICE.						KALAI DAL ( <i>Phaseolus radiatus</i> ).			ARHAR (DAL) OR TURU, UADJAN PRA ( <i>Cajanus indicus</i> ).			SALT.		
		Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
Number.		S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.	S. CH.
RAJSHAH.	DARJELING.															
	29 Sadar ...	3 12	3 12	5 4	5 0	4 8	3 0	2 12	2 12	4 0	2 12	2 12	4 0	3 0	3 0	3 0
	30 Siliguri ...	4 8	4 8	5 0	5 0	5 0	5 0	3 8	3 8	5 8	3 8	3 8	5 0	3 0	3 0	3 0
	RANGPOOL.															
	31 Sadar ...	5 4	3 8	5 8	5 10	4 4	5 8	3 12	3 12	4 8	3 0	3 0	5 0	3 0	3 0	3 0
	32 Nilphamari ...	6 0	4 0	5 8	5 10	5 0	5 0	4 0	4 0	5 12	3 8	3 8	5 12	3 0	10 0	5 8
	33 Bogra—Sadar ...	6 4	5 12	5 8	5 10	5 4	5 4	3 8	3 8	5 0	3 8	3 8	4 8	3 12	3 12	10 8
	PARNA.															
	34 Sadar ...	5 4	5 4	7 4	5 8	5 8	5 8	3 14	3 14	...	3 0	3 0	4 8	11 8	11 8	3 0
	35 Sirajganj ...	4 0	4 4	5 8	4 4	4 8	7 8	4 0	4 0	5 12	3 8	3 8	5 0	3 0	3 0	3 0
DACCA.	MALDA.															
	36 Sadar ...	5 12	4 12	7 8	7 0	6 0	6 0	4 0	5 0	5 0	3 0	3 8	5 0	12 0	12 0	3 8
	37 Balia—Nawabganj ...	5 8	4 12	5 0	7 8	6 0	5 4	5 8	5 0	...	3 8	3 8	5 8	12 0	11 8	3 0
	DACCA.															
	38 Sadar ...	5 0	4 8	5 4	5 0	5 8	7 12	5 0	4 0	2 8	4 8	4 0	5 0	10 0	10 0	3 0
	39 Munshir Hat ...	6 8	4 8	5 8	5 8	4 8	5 8	(n)	(n)	(n)	4 0	(n)	(n)	3 4	3 0	3 0
	MYMENSINGH.															
	40 Nadrabed ...	4 0	4 0	5 10	4 4	4 4	5 10	4 0	4 0	3 0	4 0	4 0	5 4	3 0	3 0	3 0
	41 Natokona ...	5 10	4 8	5 8	5 12	5 8	7 8	5 8	5 4	3 8	3 8	3 8	5 8	10 0	10 0	3 0
	FAHIDPUR.															
CHITTAGONG.	42 Sadar ...	4 12	4 12	7 0	5 0	5 0	3 0	4 0	4 0	4 0	3 4	3 0	4 4	3 2	3 8	3 0
	43 Rajbari ...	5 5	5 5	7 4	5 12	5 12	3 0	4 3	4 0	4 12	3 3	3 3	4 12	3 4	10 0	3 0
	BAKARGANJ.															
	44 Barisal ...	4 4	4 0	7 1	4 8	4 4	7 10	5 4	5 4	4 8	3 4	3 4	4 0	3 4	3 4	3 0
	45 Pirojpur ...	3 12	3 12	5 8	3 14	3 14	5 8	4 0	4 0	...	(n)	(n)	4 12	3 0	3 0	3 0
	TIPPERA.															
	46 Comilla ...	6 8	5 0	7 12	5 8	5 8	3 0	4 8	4 8	5 0	3 0	3 0	4 0	3 0	3 0	3 8
	47 Chaudpur ...	3 14	3 14	7 12	5 8	5 4	3 0	3 10	3 10	5 4	3 4	3 4	5 0	3 8	3 8	3 1
	NOAKHAL.															
	48 Kalitara Hat ...	5 0	5 0	5 8	5 0	5 0	7 0	5 8	5 8	4 0	3 4	3 4	5 8	3 0	3 0	3 0
CHITTAGONG.	49 Feni Hat ...	5 7	5 12	5 4	5 12	7 0	5 12	4 10	5 0	5 8	(n)	(n)	(n)	3 0	3 0	3 2
	OHITTAGONG.															
	50 Sadar ...	6 8	6 8	7 8	7 0	7 0	3 0	4 0	4 0	4 0	3 12	3 12	4 0	10 0	10 0	10 0
CHITTAGONG.	51 Cox's Bazar ...	6 8	6 8	11 0	(n)	(n)	11 0	4 0	4 0	4 0	3 4	3 4	4 0	3 0	3 0	3 0
	52 Chittagong Hill Tracts—Rangamati.	5 0	5 0	5 0	5 0	5 0	7 0	4 0	4 0	3 4	3 0	3 0	4 8	3 0	3 0	3 0

\* Karkatch.

(n) Not available.

(n) Not reported.

J. C. ROY,  
for Director of Agriculture, Bengal.

DACCA ;  
The 27th December 1919.



## DEPARTMENT OF STATISTICS, INDIA.

## CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, i.e., by rail, river, canal, road, and sea, of the Calcutta block\* in certain selected articles during the seven months, April to October, 1919, as compared with the corresponding period of 1918 and 1917. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

## General Summary.

**Imports.**—The imports of rice, including paddy†, into Calcutta\* by rail, river, canal, road, and sea (coastwise) during the seven months, April to October, 1919, amounted to 14,816,000 maunds, as against 7,594,000 maunds in the corresponding period of the preceding year—an increase of 95 per cent. There was an increase (14 per cent) in the imports of coal and coke (56,569,000 maunds as against 49,511,000 maunds last year). The imports by rail, river, road, and sea (coastwise) of Indian cotton piecegoods showed an increase of 70 per cent, the total value amounting to Rs. 5,64,28,000 as against Rs. 3,32,25,000 in 1918. The quantity of indigo imported during the seven months, April to October, 1919, decreased from 5,733 maunds to 2,919 maunds. The imports of raw jute amounted to 2,564,000 bales as against 2,945,000 bales—a decrease of 13 per cent. The importations of gunny bags also showed a decrease of 29 per cent (206 million bags as against 293 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 13 per cent, from 4,136,000 maunds to 4,663,000 maunds. The imports of sugar decreased by 18 per cent, from 394,000 maunds to 325,000 maunds, and those of tea by 10 per cent, from 2,023,000 maunds to 1,830,000 maunds.

**Exports.**—The exports of cotton piecegoods, foreign, from Calcutta by all routes during the seven months, April to October, 1919, increased by 9 per cent (Rs. 14,99,35,000 as against Rs. 13,78,69,000 last year). The exports of gunny bags (including the exports by sea to foreign countries) decreased from 825 million bags to 634 million bags, and the shipments of gunny bags to other Indian ports decreased from 24 millions to 21 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) increased from 2,914,000 maunds to 3,363,000 maunds, or by 15 per cent.

\* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.

† One maund of paddy is equivalent to 25 seers of rice.



TABLE I

*Trade of Calcutta in certain selected articles in the seven months, April to October, 1919, compared with the corresponding months of 1918.*

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COASTWISE)	
	April to October, 1919	April to October, 1918	April to October, 1919	April to October, 1918
<b>Food-grains—</b>				
Rice ... .. Mds	12,394,411	8,441,384	1,939,663	2,880,180
Paddy ... .. "	2,374,503	1,843,717	114,306	2,381
Total (in rice) (b) ... .. "	14,815,975	7,593,707	2,011,019	2,831,608
Wheat ... .. "	1,976,004	3,634,363	59,198	488,734
Wheat flour ... .. "	97,439	46,468	220,618	146,183
Gram and pulse ... .. "	2,048,427	3,416,360	866,769	799,760
Other food-grains ... .. "	481,863	323,093	21,793	21,277
Total food-grains ... .. "	20,322,708	16,012,991	2,189,418	4,387,644
Coal and Coke ... .. "	54,668,504	49,511,358	9,649,872	2,420,729
Cotton, raw ... .. Bales	90,823	61,604	49,396	13,040
.. twist and yarn, Indian ... .. Mds	164,999	201,793	128,972	60,811
.. piecegoods, Indian ... .. Rs	5,64,28,410	3,32,24,596	1,071,063	10,03,876
Indigo ... .. Mds	2,919	5,733	9,411	21,912
Jute, raw ... .. Bales	2,643,673	2,945,172	1,060,208	1,809,140
.. gunny bags ... .. No	293,572,477	293,171,718	590,231,901	769,233,227
Lac ... .. Mds	289,073	268,777	311,266	231,282
Oilseeds—Linseed ... .. "	3,208,838	2,380,516	3,309,630	1,019,267
.. Rape and mustard ... .. "	1,483,873	1,865,622	62,586	228,983
Silk, raw ... .. "	1,558	1,407	3,266	2,161
Sugar—Refined ... .. "	41,418	107,338	128,874	13,064
.. Unrefined ... .. "	263,524	290,566	4,293	663
Tea (Indian) ... .. "	1,839,624	2,023,088	1,806,266	1,916,502
Tobacco—unmanufactured ... .. "	680,686	426,096	199,716	130,619
.. manufactured ... .. "	29,832	28,734	4,609	6,241
	IMPORTS		EXPORTS	
	BY SEA (FOREIGN AND COASTWISE) (d)		BY RAIL, ROAD, RIVER, CANAL, AND SEA (COASTWISE)	
	April to October, 1919	April to October, 1918	April to October, 1919	April to October, 1918
Cotton twist and yarn—foreign ... .. Mds	27,266	75,973	102,693	159,093
.. .. —Indian ... .. "	16,761	16,260	287,946	225,420
.. piecegoods—foreign ... .. Rs	11,07,33,448	13,09,88,451	14,99,34,640	13,78,69,197
.. .. —Indian ... .. "	89,37,471	34,60,138	2,67,16,777	1,29,47,837
Kerosene oil (e) ... .. Mds	3,706,126	2,164,715	3,863,236	2,914,468
Salt ... .. "	5,841,863	5,426,093	5,357,485	4,626,987
Gunny bags ... .. No	.....	.....	63,184,820	80,160,583

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 35 seers of rice.

(c) Including figures of Budge-Budge trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.



TABLE

## Imports of Principal Articles into the Calcutta Trade Block by Rail, Road, River.

FOOD-GRAINS													
Whence Imported	Rice and paddy			Wheat	Wheat flour	Gram and pulse	Other food-grains	Total	Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (b) (c)	
	Rice	Paddy (a)	Total (in rice)										
BENGAL.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.	
Burdwan	128,331	518,236	450,417	.....	277	8,381	176	459,151	37,091,538	9	9	5,334	
Birbhum	127,437	4,881	130,478	2,170	43	540	.....	133,331	.....	4	103	1,290	
Bankura	3,620	60,323	41,321	2	34	318	1	41,678	173	5	181	49,067	
Midnapur	1,046,325	51,739	1,078,666	.....	51	11,602	3	1,090,319	438	131	1,310	2,16,081	
Hooghly	696,400	283,237	872,437	1,121	473	20,868	11,338	918,237	41,329	37	31,394	14,06,000	
24-Parganas	1,298,283	536,236	1,844,757	437	30	11,663	2,638	1,869,445	74,118	830	14,518	5,78,000	
Nadia	55,191	47,002	55,967	30,510	4,331	876,607	35,766	527,767	3	911	74	62,306	
Murshidabad	23,735	737	34,179	32,744	596	139,933	24,331	241,773	30	34	5	2,204	
Jessore	104,857	55,779	141,719	307	65	125,017	2,308	379,816	.....	1,345	9	1,564	
Khulna	150,878	403,410	402,381	2,215	8	21,148	214	426,969	.....	324	5	4,774	
Rajshahi	3,165	109	3,233	12,332	999	63,310	.....	101,774	.....	16	.....	4,480	
Dinajpur	15,929	25,817	48,315	.....	.....	3,336	367	51,018	.....	13	.....	180	
Jalpaiguri	320	1,833	1,663	.....	.....	.....	.....	1,663	.....	6	8	640	
Darjeeling	458	1,529	1,414	.....	.....	16	50	1,480	.....	.....	.....	180	
Bangpur	6,291	4,200	8,820	9,237	5	8,808	1,053	24,637	.....	139	12	1,900	
Bogra	9,548	47,361	38,186	33	.....	4,688	2,489	46,396	.....	30	5	.....	
Pabna	2,713	.....	2,713	29,218	1,377	164,567	767	198,641	.....	8	54	2,230	
Malda	1,208	.....	1,208	19,703	1,193	14,339	7,007	43,480	.....	.....	31	230	
Cooch Behar	423	.....	423	936	199	332	.....	1,839	.....	.....	6	.....	
Dacca	20,601	213	20,734	1,648	192	23,334	7,546	52,406	.....	10,277	114	6,933	
Mymensingh	974	.....	974	517	.....	9,484	10,344	21,389	.....	458	51	4,340	
Faridpur	15,303	2,932	17,740	19,338	747	108,909	6,945	153,499	.....	687	96	2,371	
Bakerganj	492,838	1,189	493,371	2	.....	3,942	.....	497,341	.....	11	63	3,030	
Tippura (including Hill Tippura)	3,538	297	2,744	.....	.....	.....	735	4,449	.....	121	.....	.....	
Noakhali	4	.....	4	.....	.....	783	.....	787	.....	1	30	1,993	
Chittagong	98,067	.....	98,067	3	47	4,069	.....	102,180	.....	2,331	.....	.....	
Chittagong Port	2,155	.....	2,155	.....	.....	.....	.....	2,155	.....	.....	.....	.....	
Total of Bengal	4,320,876	2,164,181	6,635,570	157,370	10,678	1,162,082	123,930	7,000,080	23,107,538	18,638	27,965	23,66,940	
OTHER PROVINCES AND PLACES													
Bihar and Orissa	5,385	9,620	11,341	201,679	9,969	1,043,183	151,991	1,438,088	38,267,082	740	1,813	2,15,638	
Assam	151,794	186,870	249,044	5,334	308	7,334	202	239,843	3,279	6	41	23,039	
U. P. of Agra and Oudh	2,972	.....	2,972	1,367,490	55,419	423,686	30,927	1,783,494	.....	4,346	1,180	8,89,840	
Punjab	5,136	.....	5,136	240,853	9,742	64,166	2,063	331,929	.....	4,774	1,074	2,01,569	
Sind and British Baluchistan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	7,310	
Central Provinces and Berar	424	7	439	.....	.....	1,314	125	2,078	.....	41,116	29,088	16,44,212	
Bombay	.....	.....	.....	.....	1	1,639	2	1,342	3	5,761	52,929	4,22,80,913	
Madras	.....	.....	.....	2,636	26	10,483	4	19,111	.....	13,668	32,466	22,16,744	
Burma	8,907,574	3,938	8,910,033	833	.....	308,351	168,967	9,401,734	.....	1,119	.....	.....	
Rajputana and Central India	260	.....	260	.....	73	64	444	833	3	.....	.....	6,22,180	
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	481	135	24,000	
Mysore	.....	.....	.....	.....	1,368	.....	1,189	2,417	.....	.....	1,882	10,70,425	
GRAND TOTAL	1919	13,394,411	2,274,603	14,816,975	1,876,004	97,439	3,048,437	484,863	20,823,708	66,468,604	90,531	148,236	6,24,70,939
	1918	6,441,384	1,843,717	7,293,707	3,634,365	46,668	3,418,360	322,093	18,019,991	49,611,338	61,804	186,533	2,93,64,468
	1917	5,980,913	942,917	6,549,672	3,374,435	108,537	3,368,357	296,495	16,708,384	47,979,091	89,977	253,300	2,19,96,949

(a) One maund of paddy is equivalent to 26 mers of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.



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Canal, and Sea (Coastwise) in the seven months, April to October, 1919.

Indigo	JUTE		Lac	OILSEEDS		Milk, raw	SUGAR		Tea, Indian	TOBACCO		Whence imported
	Raw (d)	Gunny-bags (e)		Linseed	Rape and mustard		Refined	Un-refined		Unmanufactured	Manufactured	
Mds	Bales of 400 lb = 3,343	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	BENGAL
.....	.....	92,337	32	739	5,323	.....	25	773	5	336	15	Burdwan
.....	.....	33,497	408	673	1,731	.....	30	5	1	.....	.....	Birbhum
.....	.....	17,361	49	.....	.....	.....	.....	.....	2	165	44	Bankura
.....	7,317	81,991	6	533	931	44	.....	42,996	.....	50	26	Midnapur
4	36,071	65,153,209	.....	844	3,078	.....	25	66,000	.....	14,363	990	Hooghly
.....	196,146	138,568,783	.....	329	3,911	.....	13,870	24,513	34	6,169	3,903	24 Parganas
.....	86,427	20,636	.....	40,786	4,783	89	430	5,060	.....	10,405	16	Nadia
.....	13,360	11,999	1,591	23,347	3,099	1,143	3	120	.....	518	1,437	Murshidabad
.....	19,833	26,340	.....	1,427	3,840	.....	.....	71,759	.....	3,450	29	Jamora
.....	34,868	14,391	.....	3,864	1,610	.....	.....	661	.....	225	.....	Khulna
.....	70,104	3,396	.....	13,303	3,538	.....	.....	.....	.....	33	2	Rajshahi
.....	45,730	100,614	.....	.....	1,893	.....	.....	8	.....	284	.....	Dinajpur
.....	57,895	39,106	13	.....	4,199	.....	.....	.....	598,541	161,315	6	Jalpaiguri
.....	8,423	8,979	.....	418	323	.....	.....	1	179,441	6,461	21	Darjeeling
.....	346,468	137,842	.....	4,419	1,437	.....	7	.....	14,396	153,948	6	Rangpur
.....	110,433	18,252	.....	2,379	9,703	.....	.....	3	3	.....	.....	Bogra
.....	137,626	27,101	.....	18,653	10,246	.....	24	.....	16	87	.....	Pabna
.....	10,566	616	18	3,186	1,614	161	.....	.....	.....	113	.....	Malda
.....	40,317	1,853	.....	.....	435	.....	.....	2,101	.....	38,413	.....	Cooch Behar
.....	384,328	31,794	6	1,642	1,923	.....	525	81	1,986	16	8	Dacca
.....	392,660	7,431	.....	617	3,816	.....	13	.....	.....	117	7	Mymensingh
.....	166,146	60,762	.....	3,800	10,438	.....	36	200	.....	91	13	Fariapur
.....	5,435	84,635	.....	906	139	.....	.....	260	99	.....	.....	Bakerganj
.....	83,894	3,386	.....	206	786	.....	.....	.....	33	.....	.....	Tippura (including Hill Tippura)
.....	249	3,813	.....	1,417	.....	.....	.....	.....	.....	.....	.....	Nonkhali
.....	43	9,963	.....	.....	462	.....	.....	.....	3,730	.....	2	Chittagong
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chittagong Port
4	2,369,949	304,592,014	2,033	118,346	76,653	1,437	14,985	219,641	791,177	396,634	6,621	Total of Bengal
												OTHER PROVINCES AND PLACES
1,895	183,873	284,787	181,463	2,088,836	199,752	.....	3,329	23,693	2,846	173,286	19,038	Bihar and Orissa
.....	107,749	73,611	23,041	53,631	109,924	101	2	21	1,022,763	125	63	Assam
1,680	.....	244,865	94,486	896,709	838,888	.....	2,762	14,466	1,324	604	707	U. P. of Agra and Oudh
.....	.....	68,962	.....	336	131,797	.....	.....	601	51	21	10	Punjab
.....	.....	1,148	.....	.....	12,046	.....	.....	.....	57	6	12	Sind and British Baluchistan
.....	.....	128,740	12,304	83,304	3,836	3	.....	.....	93	142	1,823	Central Provinces and Berar
.....	.....	31,612	.....	.....	77,099	.....	1,070	3	49	6,638	80	Bombay
.....	.....	18,123	1,966	690	1,182	12	18,368	23,015	306	51,031	579	Madras
.....	.....	8,286	23,646	1	.....	.....	182	1,591	53	21,737	965	Burma
.....	.....	22,140	1,014	10,306	14,468	.....	.....	176	27	.....	9	Rajputana and Central India
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nizam's Territory
.....	.....	.....	.....	.....	.....	.....	.....	647	18	1,408	.....	Mysore
2,919	2,363,573	308,572,477	239,073	3,208,836	1,453,073	1,566	41,418	283,524	1,829,624	680,636	29,832	1919
6,733	2,945,172	393,171,718	286,777	3,740,616	1,656,622	1,407	167,368	286,666	2,073,068	426,006	23,734	1918
2,437	2,243,459	336,753,711	311,326	663,366	1,949,062	2,443	163,154	223,249	1,784,008	487,013	37,707	1917
												GRAND TOTAL

(d) Excludes imports into the mills outside the Calcutta block, which are 1,639,373 bales, but includes imports into the Kidderpore Dock, namely, 48,845 bales.

(e) Including gunny cloth, 2 yards of cloth = 1 bag.

(f) Of these, 1,484,760 bales came by rail, 1,019,748 bales by river, 37,733 bales by road and 17,839 bales by sea.



TABLE III

Statement of the Routes by which the Articles enumerated in Table No. II were Imported into the Calcutta Trade Block in the seven months, April to October, 1919.

Routes	FOOD-GRAINS						Coal and coke	Cotton, raw	Cotton twist and yarn, Indian (b)	Cotton piece goods, Indian (c)	Indigo
	Rice	Paddy (a)	Wheat	Wheat flour	Grain and pulse	Other food-grains					
	Mds	Mds	Mds	Mds	Mds	Mds	Mts	Bales of 400 lbs	Mds	Rs	Mds
By rail	E. I. Railway...	987,522	613,478	1,080,279	76,107	1,335,134	136,193	41,410,370	9,559	3,622	24,23,817
	E. B. Railway (including P. C. Railway)	812,881	335,394	235,328	9,273	775,584	69,567	3,748,097	1,715	1,528	6,45,831
	A. B. Railway...	1,008	301	...	...	821	...	...	...	33	3,815
	B. N. Railway...	341,522	91,414	2	1,442	30,738	1,304	11,320,691	54,135	106,715	4,74,37,302
	B. & N. W. Railway	441	...	471,710	1	223,754	56,407	...	418	16	7,353
	D. S. Railway...	...	...	504	...	...	...	...	...	...	2,235
	Kaighat-Falta Railway	118,868	33,224	...	...	...	...	...	...	...	...
	Howrah-Amra and Howrah-Benkhala Light Railways	49,142	6,169	...	24	10	...	...	...	...	30,710
	Bengal ... and Bihar ... Orissa ... Assam ... U. P. of Agra and Oudh	356,737	12,340	10,875	645	51,453	33,613	30	13,621	418	2,35,436
		50	...	58,436	9,298	23,375	5,355	...	34	...	934
By river steamer		43,598	99,897	760	60	1,266	203	3,379	3	9	30,342
		...	...	38	14	3,295	25	...	4	...	...
By boat		1,326,013	1,005,957	44,696	474	287,411	13,704	1,065	3,785	39,327	12,61,500
By road		280,366	23,345	108	...	1,416	1,605	84,574	457	6,671	7,02,374
By sea		8,907,583	3,933	2,378	1	404,540	183,967	...	9,132	...	...
Total	1919	13,394,411	2,274,503	1,876,004	97,439	3,046,427	484,853	56,768,604	90,533	148,238	5,24,70,939
	1918	6,441,384	1,613,717	2,434,363	46,658	2,416,360	332,092	49,511,358	61,604	185,533	2,93,64,448
	1917	5,960,912	912,017	6,987,432	108,527	3,266,357	296,493	47,979,091	89,377	252,390	2,43,98,949

Routes	JUTE			OILSEEDS			Silk, raw	SUGAR		TOBACCO		
	Raw (d)	Gunny bales (e)	Lac	Linseed	Rape and mustard			Refined	Unrefined	Tea, Indian	Unmanufactured	Manufactured
	Bales of 400 lbs	No.	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
By rail	E. I. Railway...	45,163	892,770	169,908	785,470	544,937	13	915	27,144	1,034	4,191	9,167
	E. B. Railway (including E. C. Railway)	1,476,844	708,039	16,013	114,516	96,451	895	23	41,655	808,573	318,604	1,453
	A. B. Railway...	106	26,322	268	5,827	41	...	1	...	227,190	...	31
	B. N. Railway...	1,495	355,555	116,695	65,532	16,344	23	12,323	18,054	2,943	39,800	2,105
	B. & N. W. Railway	12,301	21,474	...	2,164,326	267,009	...	3,901	11,537	57	31,160	...
	D. S. Railway	...	...	...	...	...	...	...	...	155,000	...	...
	Kaighat-Falta Railway	...	10,544	...	...	...	...	...	...	...	...	...
	Howrah-Amra and Howrah-Benkhala Light Railways	3,931	22,534	...	33	...	...	8	580	...	11	...
	Bengal ... and Bihar ... Orissa ... Assam ... U. P. of Agra and Oudh	773,774	99,670	50	8,022	11,970	574	627	2,872	20,122	403	10,433
		474	6,332	...	236	8,670	...	132	...	...	6,332	...
By river steamer		57,527	20,094	8,319	55,366	66,071	41	2	2	612,723	...	35
		...	328	...	...	327	...	776	...	...	118	100
By boat		187,973	302,418,260	...	8,408	15,791	...	591	148,645	34	21,526	17
By road		87,733	820,188	...	50	...	...	12,704	20,534	...	6,619	4,864
By sea		17,332	31,166	23,716	1	7,107	...	1,323	1,331	143	21,962	1,407
Total	1919	2,563,573	208,573,477	339,073	2,208,526	1,432,673	1,556	41,416	262,524	1,829,624	680,676	29,832
	1918	2,946,173	293,171,716	358,777	2,240,516	1,886,632	1,407	107,238	286,366	2,023,088	426,006	33,794
	1917	2,213,469	236,768,711	311,225	1,681,336	1,949,082	3,443	163,164	222,249	1,764,008	457,013	37,767

(a) One mound of paddy is equivalent to 25 mows of rice.

(b) Excluding trade by sea (coastwise).

(c) The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

(d) Excludes imports into the mills outside the Calcutta block, which are 16,58,673 bales, but includes imports into the Kidderpore Docks, namely, 48,245 bales.

(e) Including gunny-cloth, 2 yards of cloth = 1 bag.



TABLE IV

*Imports of certain Articles into the Port of Calcutta by Sea (Foreign and Coast-wise) in the seven months, April to October, 1919.*

	COTTON TWIST AND YARN		COTTON PIECE GOODS		Kerosene oil	Salt
	Foreign	Indian	Foreign	Indian		
<b>FOREIGN—</b>	Mds	Mds	Rs	Rs	Mds	Mds
From United Kingdom ... ..	18,078	.....	9,86,74,469	.....	5	1,185,808
„ Other countries ... ..	5,938	.....	1,53,07,540	.....	1,791,893	4,705,836
Total ...	24,016	.....	10,79,40,999	.....	1,791,898	5,891,163
<b>COASTWISE—</b>						
From British Ports in—						
Bihar and Orissa ... ..	18	.....	.....	.....	.....	.....
Bombay ... ..	1,446	19,453	4,44,385	39,24,369	.....	.....
Madras ... ..	973	146	15,073	8,382	.....	.....
Burma ... ..	814	162	23,87,991	1,14,870	1,914,231	.....
Total ...	3,380	19,761	27,87,449	39,87,471	1,914,231	.....
1919 ...	27,396	19,761	11,07,33,448	39,87,471	2,706,129	5,891,163
GRAND TOTAL ... 1918 ...	75,973	16,380	18,09,88,461	38,40,138	2,164,715	5,426,998
1917 ...	41,378	1,184	13,65,78,668	62,523	2,806,563	4,070,783



TABLE V

**Exports of Principal Articles from the Port of Calcutta by Sea (Coastwise and to Foreign Countries) in the seven months, April to October, 1919**

	FOOD-STUFFS								Coal and coke	Cotton, raw	Cotton twist and yarn, Indian	Cotton piece-goods, Indian
	Rice	Paddy (a)	Total (in rice)	Wheat	Wheat flour	Gram and pulse	Other food-grains	Total				
Countries—	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Bales of 400 lbs	Mds	Rs.
To British Ports in—												
Bengal ...	285	.....	285	.....	67	76	.....	428	372	11	596	4,720
Bihar and Orissa	23,477	.....	23,477	484	1,987	4,865	.....	20,403	2,614	.....	1,994	.....
Madras ...	863,646	114,203	933,023	8,869	524	478,617	66	1,432,700	241,308	.....	49	.....
Burma ...	4,575	.....	4,575	39,345	185,474	183,398	17,673	380,668	1,688,458	102	94,663	10,02,832
Total ...	891,983	114,203	963,360	48,601	187,652	616,946	17,739	1,834,298	2,031,947	173	97,802	10,07,862
Foreign—												
To United Kingdom	8	.....	8	80	.....	2,910	.....	2,007	2,102	2,780	.....	.....
„ Other countries	1,047,673	1	1,047,674	10,515	22,966	246,004	14,054	1,332,112	7,614,892	46,454	31,670	62,800
Total ...	1,047,681	1	1,047,682	10,595	22,966	248,914	14,054	1,334,119	7,616,994	49,234	31,670	62,800
GRAND TOTAL												
1919 ...	1,929,663	114,206	2,011,042	59,196	220,618	866,760	31,793	3,139,418	9,649,872	49,896	126,973	10,71,062
1918 ...	2,830,120	2,381	2,831,606	488,724	246,185	799,780	21,377	4,387,644	2,420,729	12,040	60,811	10,03,876
1917 ...	672,963	120	673,058	54,182	570,131	573,426	31,789	1,902,689	10,068,102	23,577	76,428	18,66,664

	JUTE				OILSEEDS			SUGAR		Tea, Indian	TOBACCO	
	Indigo	Raw	Gunny (bagged)	Ice	Linseed	Rape and mustard	Silk, raw	Refined	Un-refined		Un-manufactured	Manufactured
Countries—	Mds	Bales of 400 lbs	No	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
To British Ports in—												
Bengal ...	.....	.....	633	.....	.....	.....	.....	1,806	63	6	236	29
Bihar and Orissa	.....	.....	5,771	.....	.....	126	.....	470	347	.....	1,523	133
Madras ...	236	9	397,903	195	.....	1,518	.....	92,261	.....	20	.....	.....
Burma ...	.....	188	20,262,618	220	.....	4,608	.....	25,804	3,980	8,625	114,808	2,248
Total ...	236	167	20,717,015	395	.....	6,362	.....	120,141	4,280	2,661	116,366	2,371
Foreign—												
To United Kingdom	1,414	313,923	76,466,480	96,490	2,375,189	9,611	1,392	7	.....	1,471,974	27,426	26
„ Other countries	7,759	347,118	402,049,436	414,421	924,337	46,713	1,976	6,726	4	124,621	48,924	2,012
Total ...	9,173	1,060,041	569,514,886	510,936	3,309,526	56,324	3,368	6,733	4	1,596,605	76,350	2,038
GRAND TOTAL												
1919 ...	9,411	1,060,308	590,281,911	511,365	3,309,526	62,336	2,366	126,874	4,292	1,606,366	122,716	4,609
1918 ...	21,612	1,806,140	769,358,227	221,282	1,018,267	224,983	2,161	12,064	663	1,916,562	120,619	6,241
1917 ...	15,012	648,766	794,271,226	244,453	616,619	170,240	2,924	2,268	2,008	1,578,429	155,877	2,312

(a) One maut of paddy is equivalent to 35 seers of rice.  
(b) Including gunny cloth, 3 yards of cloth = 1 bag.



TABLE VI

*Exports of certain Articles from the Calcutta Trade Block by rail, road, river, canal, and sea (coastwise) in the seven months, April to October, 1919*

Whither exported	COTTON TWIST & YARN		COTTON FIBRE GOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta block	From Budge-Budge‡	
<b>BENGAL</b>	Mds	Mds	Rs	Rs	No	Mds*	Mds	Mds
Burdwan ... ..	673	4,138	35,43,301	2,59,326	846,363	71,075	99,627	142,307
Birbhum ... ..	128	8,609	16,97,690	2,30,860	218,302	196	33,600	93,894
Bankura ... ..	184	4,345	6,35,148	8,833	86,979	80	...	60,373
Midnapur ... ..	6,603	3,196	28,03,908	3,69,328	304,357	11,039	79,305	303,627
Hooghly ... ..	5,474	417	9,33,457	1,67,983	347,502	36,377	92,348	145,311
24 Parganas ... ..	984	3,736	5,63,100	3,37,264	738,493	64,486	49,399	163,413
Nadia ... ..	1,979	23,760	54,53,844	6,09,136	616,035	4,993	84,768	207,373
Murshidabad ... ..	483	5,616	29,36,336	1,99,977	308,559	3,926	66,463	173,104
Jessore ... ..	1,377	4,073	14,08,916	3,15,329	346,493	8,097	37,673	96,845
Khulna ... ..	3,334	955	8,09,065	5,33,003	177,038	8,232	34,607	87,990
Rajahmundry ... ..	27	897	27,49,681	3,64,923	179,339	3,318	36,405	70,979
Dinajpur ... ..	5	1,366	22,51,477	7,69,901	176,268	752	38,833	112,278
Jalpaiguri ... ..	150	2,769	24,96,733	7,17,436	188,805	1,769	31,003	105,033
Darjeeling ... ..	281	1,604	23,66,810	1,79,126	130,831	803	26,156	64,745
Rangpur ... ..	417	3,397	67,50,380	8,66,518	197,622	1,487	66,793	241,239
Bogra ... ..	19	1,439	3,40,466	20,55,576	132,840	3,096	47,700	145,360
Pabna ... ..	3,304	4,674	24,63,276	10,89,326	204,590	631	168,203	176,119
Malda ... ..	118	4,403	18,80,310	3,37,145	199,130	95	3,490	49,266
Cooch Behar ... ..	56	660	18,64,531	1,90,685	86,387	144	13,010	33,446
Dacca ... ..	10,263	7,032	53,87,503	9,47,567	125,781	13,043	393,610	395,376
Mymensingh ... ..	4,610	4,009	32,76,743	40,53,055	76,342	232	31,955	381,304
Faridpur ... ..	6,747	1,810	20,38,360	8,47,683	179,680	7,666	36,967	163,730
Bakarganj ... ..	7,481	739	9,13,199	11,16,971	431,197	2,710	35,145	115,103
Tippura (including Hill Tippura) ...	2,480	7,807	31,37,505	67,201	108,691	603	780	63,961
Noakhali ... ..	2,311	6,416	13,26,114	2,47,258	39,278	60	31	1,944
Chittagong ... ..	4,509	330	3,67,066	2,43,719	165,999	41	39	1,756
Chittagong Port ... ..	53	533	13,31,042	3,92,377	6,724	...	...	16
<b>Total of Bengal</b> ...	67,829	110,599	6,62,05,465	1,69,77,282	6,384,546	197,868	1,467,926	3,468,521
<b>OTHER PROVINCES AND PLACES</b>								
Bihar and Orissa ... ..	7,705	61,339	3,35,81,901	1,12,87,813	5,900,164	5,630	734,703	1,445,554
Assam ... ..	11,093	9,303	1,26,44,327	31,33,454	933,937	8,116	61,397	430,443
U. P. of Agra and Oudh ... ..	1,635	3,646	1,81,60,366	29,84,334	7,181,970	1,746	770,968	8,931
Punjab ... ..	3,633	1,301	1,33,35,738	3,17,165	8,061,343	110	45,345	21
Sind and British Baluchistan ...	...	...	1,09,676	...	1,671,038	337	555	...
Central Provinces and Berar ...	16	543	10,21,336	1,47,349	1,734,841	1,139	16,976	3,408
Bombay ... ..	1,139	919	12,36,421	51,498	6,274,353	8,433	176	...
Madras ... ..	2,336	8,780	6,33,771	3,78,164	4,333,539	3,684	...	160
Burma ... ..	7,349	31,663	20,91,503	10,02,833	29,362,618	283	...	373
Rajputana and Central India ...	101	169	8,04,149	30,984	961,337	1,703	26,720	2
Kashmir State ... ..	47	1	1,963	...	41	...	...	...
Nizam's Territory ... ..	...	3	2,41,078	960	327,186	3,514	...	...
Mysore ... ..	...	...	9,064	1,333	339,071	...	...	...
Port Blair ... ..	...	596	8,300	4,720	638	...	...	...
<b>GRAND TOTAL</b> { 1919 ...	102,623	267,946	14,99,34,340	3,63,16,777	65,164,880	329,563	3,133,654	8,367,425
1918 ...	169,003	328,490	15,78,69,197	1,29,47,337	80,130,685	171,590	2,742,868	4,636,967
1917 ...	116,873	319,010	14,66,19,697	1,29,99,645	63,638,030	336,831	3,116,386	4,061,065

\* The value rates are fixed quarterly, and the monthly valuation is made at the value rates of the preceding quarter.

† Including gunny cloth, 2 yards of cloth = 1 bag.

‡ The exports of Kerosene oil from Budge-Budge to Calcutta in the seven months, April to October, 1919, were 553,781 mounds, as against 553,814 mounds and 514,979 mounds in 1918 and 1917, respectively.



TABLE VII

*Statement of the Routes by which the Articles enumerated in Table No. VI were exported from the Calcutta Trade Block in the seven months, April to October, 1919*

Routes.	COTTON TWIST AND YARN		COTTON PIECE-GOODS*		Gunny bags†	KEROSENE OIL		Salt
	Foreign	Indian	Foreign	Indian		From Calcutta Block	From Budge-Budge	
	Mds	Mds	Rs	Rs	No	Mts	Mds	Mds
E. I. Railway ...	2,376	41,930	2,49,98,143	52,00,918	3,373,810	32,763	927,393	797,371
E. B. Railway (including B. C. Railway)	2,998	65,030	4,17,33,829	1,19,06,897	2,383,144	35,144	836,084	1,781,838
A. B. Railway ...	1,839	15,098	92,99,014	7,24,838	161,863	1,789	483	97,364
B. N. Railway ...	1,181	39,884	48,16,369	14,12,849	1,505,938	6,001	3,910	894,742
B. & N. W. Railway ...	180	7,106	2,07,55,941	61,93,267	2,987,085	1,347	408,996	328,568
O. A. R. Railway ...	481	480	25,43,824	3,44,904	935,018	869	281,841	47
Howrah-Amra and Howrah-Seakhala Light Railways	1,863	...	3,13,315	...	36,777	6,780	...	19,211
By rail ...								
N. W. Railway ...	1,335	889	30,83,196	74,773	9,161,368	30	11,882	...
G. I. P. Railway ...	1,345	772	17,17,306	1,03,181	6,837,267	7,069	7,497	2
B. R. & C. I. Railway ...	173	401	8,78,603	18,422	1,605,619	187	4,682	...
M. & S. M. Railway ...	2,020	2,914	4,47,000	1,43,478	2,880,947	3,796	...	30
S. I. Railway ...	14	198	1,028	43,246	897,831	...	...	...
J. B. Railway ...	...	9	2,87,688	13,766	124,180	278	425	...
N. G. R. Railway ...	...	3	2,41,081	980	214,784	3,814	...	...
Other Railways ...	115	3	6,50,389	1,21,862	160,064	1,102	21,184	10,231
By river steamer ...								
Bengal ...	33,461	18,000	1,88,92,001	64,89,541	1,377,682	29,125	648,324	893,264
Bihar and Orissa ...	714	886	4,56,766	1,72,386	1,667,179	14	...	1,198
Assam ...	10,456	2,816	67,83,794	25,69,957	899,293	4,918	12,660	230,193
U. P. of Agra and Oudh ...	38	38	1,02,074	19,684	188,648	40	...	...
By boat ...	6,070	...	4,30,060	47,890	270,708	51,050	180,069	502,369
By road ...	4,236	272	7,37,089	4,68,617	239,137	71,009	4,034	98,281
By sea ...	8,837	97,803	20,98,964	10,07,863	30,717,016	...	18,600	12,085
Total ...								
1919 ...	102,693	297,946	14,89,34,640	3,63,16,777	66,194,880	329,683	3,123,654	6,367,433
1918 ...	159,093	328,480	12,74,69,197	1,29,47,387	90,170,885	171,890	2,742,968	6,628,987
1917 ...	116,672	249,010	14,64,19,597	1,29,99,646	63,633,030	226,821	2,116,286	4,041,095

\* The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter.  
† Including gunny cloth. 9 yards of cloth = 1 bag.

DEPARTMENT OF STATISTICS, INDIA,

D. N. GHOSH,

December 29, 1919.

Offg. Director of Statistics.



**Statement of Weekly Gauge-readings on the River Ganges at Rampur-Boalia for the week ending the 20th December 1919.**

Date.	Hour.	Height of surface above or below zero : minus sign for those below zero.	Height of surface above mean sea-level according to P. W. D. datum.(a)	Height of surface above mean sea-level on the same date last year according to P. W. D. datum.(a)	Remarks.
1919.					
14th December ...	8 A.M.	Zero of gauge is at mean sea level.	40.35	39.06	B. M. on College step corrected, 64.93.
15th " ...	8 "		40.20	39.01	
16th " ...	8 "		40.10	38.96	
17th " ...	8 "		40.05	38.91	
18th " ...	8 "		40.00	38.84	
19th " ...	8 "		39.90	38.71	
20th " ...	8 "		39.80	38.61	

(a) P. W. D. datum 6.25 feet above Kidderpore old dock sill.

			Old value.	According to P. W. D. datum.
The previous year	Highest water-level	...	66.42 on 30th August 1918	61.71
Ditto	Lowest "	...	41.70 on 21st April 1918	36.89
Record	Highest "	...	69.25 on 26th August 1879	64.44
Do.	Ditto	...	69.08 on 9th September 1886	64.27
Do.	Ditto	...	68.80 on 25th August 1906	63.47
Do.	Ditto	...	68.21 on 26th August 1890	63.40
Do.	Lowest "	...	37.63 on 25th April 1884	32.82
Do.	Ditto	...	38.13 on 14th-15th April 1883	33.82
Do.	Ditto	...	39.02 on 21st-22nd April 1897	34.21
Do.	Ditto	...	39.28 on 6th-7th May 1908	34.47

N.B.—The gauge-readings commenced from 1st August 1887.

BOALIA,  
The 20th December 1919.

M. SEN GUPTA,  
Executive Engineer, Rajshahi Divn.

**Statement showing the gauge-readings at Dacca Water-works Station on the river Buriganga for the week ending the 6th December 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 5 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919.							
30th Nov.	54.7	15.0	55.3	10.45	54.3	55.2	F. T. at 10-15, and R. T. at 14-45.
1st Dec.	55.0	16.30	55.5	11.18	54.5	55.3	F. T. at 11-30, and R. T. at 15-40.
2nd "	54.86	17.28	55.4	12.20	54.4	55.3	F. T. at 12-30, and R. T. at 17-35.
3rd "	54.9	..	...	13.15	54.3	55.0	F. T. at 13-45.
4th "	55.0	...	...	14.20	54.25	54.8	F. T. at 14-35.
5th "	55.2	7.0	55.2	15.35	54.2	54.5	R. T. at 7-10, and F. T. at 15-45.
6th "	55.10	8.30	55.38	16.30	54.2	54.3	R. T. at 8-40, and F. T. at 16-42.

**Notable high and low water-levels of previous years.**

27th August	1906	...	...	...	70.5	Taken at high tide.
6th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
18th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	Taken at low tide.
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	
23rd February	1907	...	...	...	51.06	
18th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	Taken at low tide.
22nd February	1915	...	...	...	50.30	
15th "	1916	...	...	...	50.60	
8th March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA,  
The 10th December 1919.

W. J. KERR,  
Executive Engineer, Dacca Division



**Statement showing the gaugereadings at Dacca Water-works Station  
on the river Buriganga for the week ending the 13th December 1919.**

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 5 P.M.	Remarks.
		Time.	Readings.	Time.	Readings.		
1919							
7th Dec.	55.26	9.30	55.4	17.20	54.18	54.2	H. T. at 9.45, and F. T. at 17.30.
8th "	55.0	10.48	55.6	...	...	54.35	H. T. at 11.
9th "	54.6	11.55	55.8	7.0	54.6	54.78	F. T. at 7.10, and H. T. at 12.5.
10th "	54.6	13.0	55.7	7.50	54.5	55.2	F. T. at 8, and H. T. at 13.10.
11th "	54.5	14.5	55.6	8.40	54.3	55.0	F. T. at 8.45, and H. T. at 14.20.
12th "	54.3	15.12	55.52	9.38	54.0	55.0	F. T. at 9.45, and H. T. at 15.25.
13th "	54.0	16.0	55.40	10.30	53.6	55.20	F. T. at 10.45, and H. T. at 16.15.

**Notable—high and low water levels of previous years.**

27th August	1906	...	...	...	70.5	Taken at high tide.
5th September	1909	...	...	...	67.86	
10th August	1910	...	...	...	69.86	
1st "	1911	...	...	...	68.46	
13th "	1912	...	...	...	67.16	
31st "	1915	...	...	...	69.7	
18th "	1916	...	...	...	68.1	
12th "	1917	...	...	...	67.1	
31st "	1918	...	...	...	69.12	Taken at low tide.
23rd February	1907	...	...	...	51.06	
13th "	1908	...	...	...	51.06	
12th March	1912	...	...	...	51.06	
6th "	1914	...	...	...	50.60	
23rd February	1915	...	...	...	50.80	
16th "	1916	...	...	...	50.60	
3rd March	1917	...	...	...	51.0	
21st February	1918	...	...	...	51.40	

DACCA.

The 22nd December 1919.

W. J. KERR.

Executive Engineer, Dacca Division.





# The Calcutta Gazette

WEDNESDAY, JULY 2. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal*

CALCUTTA, the 23rd June 1919.

### PERSIAN GULF.

*Shatt-al-Arab River Entrance—Amended position of Tidal Semaphore and Fairway Gas Buoy.*

No. 186 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 42-M. of 1919), are republished:—

Former Notice No. 22-M. of 1919. (This Office No. 99 of 1919.)

*Details.*—The amended position of the Tidal Semaphore and the Fairway Gas Buoy is as follows:—

(a) Amended position of Tidal Semaphore.

Lat.  $29^{\circ} 50' 13.92''$  N.

Long.  $43^{\circ} 42' 46.38''$  E.

(b) Amended position of Fairway Gas Buoy.

Lat.  $29^{\circ} 47' 55.14''$  N.

Long.  $48^{\circ} 44' 55.68''$  E.

*Chart affected.*—No. 1235, Mouth of the Euphrates.

*Publications.*—Persian Gulf Pilot, 1915, page 281.

Indian List of Lights, 37th issue, 1918, No. 29.

*Authority.*—The Port Officer, Basrah.

Dated 28th April 1919.



INDIA, WEST—TRAVANCORE COAST.

*Entrance to Quilon Roadstead—Buoys removed for S.-W. Monsoon.*

No. 187 (*first publication*).—The Principal Port Officer, Alleppey, has given notice, dated the 16th May 1919, that the buoys marking the entrance to the Quilon Roadstead have been removed for the S.-W. Monsoon and will be replaced on or about the 15th September 1919.

INDIA, WEST—TRAVANCORE COAST, KOLACHEL.

*Patna rock red buoy—Removed for S.-W. Monsoon.*

No. 188 (*first publication*).—The Principal Port Officer, Alleppey, has given notice, dated the 23rd May 1919, that the Patna rock red buoy has been removed for the S.-W. Monsoon and will be replaced on or about the 15th September 1919.

The 17th June 1919.

INDIA, WEST COAST—PORT DABHOL

*Talkeshwar Light re-exhibited, Provisional Light discontinued.*

No. 183 (*second publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 41-M of 1919), are republished :—

Former Notice No. 24-M of 1919. (*This Office No. 101 of 1919.*)

*Position* ... Talkeshwar point, south entrance to harbour.  
Lat. 17° 34' N.  
Long. 73° 09' E.

*Details* ... The provisional light which was temporarily exhibited on Talkeshwar point has been discontinued and the original fixed white light has been re-exhibited.

*Charts affected* No. 738, Kundari Island to Boria Pagoda.  
„ 2736, Gulf of Kutch to Vaziadrug.  
„ 826, Karachi to Vengurla.

*Publications...* List of Lights, Part VI, 1919, No. 405.  
Indian List of Lights, 37th issue, 1918, No. 108.  
West Coast of India Pilot, 1909, page 200.

*Authority* ... The Deputy Commissioner of Salt and Excise, Southern Division, dated 22nd May 1919.

AUSTRALIA—TORRES STRAIT, WESTERN APPROACH

LIGHT-VESSEL (U) TO BE ESTABLISHED.

No. 184 (*second publication*).—

*Former Notices.*—Nos. 347 of 1918 and 43 of 1919.

*Subject.*—A Light-Vessel will be established in the western approach to Torres Strait, on or about 15th June, 1919.



*Position (approximate).—*The Light-Vessel will be moored in about 20 fathoms of water, at a distance of 20 miles ( $240^{\circ}$  S.  $55^{\circ}$  W. Mag.) from Merkara Shoal.

Lat.  $10^{\circ} 40'$  S., long.  $140^{\circ} 55'$  E. on Chart No. 447.

*Characteristics.—*

(a) *Light:*

*Character.—Group flashing white light, showing three flashes in quick succession every fifteen seconds, thus:—*

Flash,	Eclipse	Flash,	Eclipse,	Flash,	Eclipse.
$\frac{1}{2}$ sec.	$1\frac{1}{2}$ secs.	$\frac{1}{2}$ sec.	$1\frac{1}{2}$ secs.	$\frac{1}{2}$ sec.	$10\frac{1}{2}$ secs.

*Elevation.—*32 feet.

*Visibility.—*10 miles.

*Power.—*1,500 candles.

(b) *Fog Signal:*

*Description.—*A bell sounded by the motion of the vessel.

(c) *Vessel:*

*Description.—*The vessel has one mast carrying the lantern; the hull is painted red and marked "Carpentaria" in white on sides.

*Remarks.—*The light will be unwatched.

*Note.—*No further notice will be given.

*Charts Affected.—*No. 447, Torres Strait, Western approaches.  
 „ 2759a, Australia, Northern portion.  
 „ 780, Pacific Ocean, South-west sheet.

*Publications.—*List of Lights and Time Signals, Part VI., 1919, No. 2752.

Australia Pilot, Vol. III., 1916, page 245.

*Authority.—*Melbourne Notice No. 1 of 1919.

AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Cape Liptrap Light (U)—Intended alteration in Characteristics.*

No. 185 (second publication).—

*Subject.—*The Group Flashing White Light on Cape Liptrap will be altered as set out hereunder, on or about 1st September 1919.

*Position.—*Lat.  $38^{\circ} 54\frac{1}{2}'$  S., long.  $145^{\circ} 55\frac{1}{2}'$  E. on Chart No. 3169.

*Details.—*The group flashing white light showing two flashes every ten seconds will be replaced by a new light having the undermentioned characteristics—

*Character.—Group flashing white light, showing three flashes in quick succession every fifteen seconds, thus:—*

Flash,	Eclipse,	Flash,	Eclipse,	Flash,	Eclipse.
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$11\frac{1}{2}$ secs.



*Remarks.*—The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 3169, Port Phillip to Gabo Island.  
 „ 1695b, Bass Strait, Western sheet.  
 „ 788, Melbourne to Cape Horn, Western sheet.  
 „ 2759b, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2492.

Australia Pilot, Vol. II, 1918, page 170.

*Authority.*—Melbourne Notice No. 2 of 1919.

The 10th June 1919.

### CELEBES, WEST COAST.

#### *Makassar Road—Prohibited Anchorage.*

*No. 172 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 825 of 1919), are republished—

*Position.*—Mariso lighthouse, lat.  $5^{\circ} 09\frac{1}{4}'$  S., long.  $119^{\circ} 24\frac{1}{4}'$  E.

*Details.*—Anchorage is prohibited in Makassar road within a triangular area bounded as follows:—

Limits:

- (a) *On the North.*—By a straight line drawn from Mariso light-tower through Great Lae Lae shoal light-tower as far as limit (c).
- (b) *On the South.*—By a straight line drawn from Mariso light-tower through the white conical buoy marking Taka Pinjing as far as limit (c).
- (c) *On the West.*—By the meridian of long.  $119^{\circ} 20' 30''$  E.

*Remarks.*—At night in place of limit (b), the southern limit of the red sector of Mariso light is to be substituted.

*Charts affected.*—No. 2662, Plan of Makassar road.  
 „ 1293, Approach to Makassar.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 386.

*Authority.*—Hague Notice No. 511 of 1919. (H. 2648/19.)

### SUMATRA, WEST COAST.

#### *Benkulen Road—Buoy established.*

*No. 173 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 827 of 1919), are republished:—

*Former Notice.*—No. 176 of 1919. (This office No. 71 of 1919.)

*Position.*—On the western side of the 2½-fathom shoal referred to in the former Notice and  $3\frac{1}{10}$  miles,  $319^{\circ}$  (N,  $41^{\circ}$  W. Mag.), from the Residency.

Lat.  $3^{\circ} 45'$  S., long.  $102^{\circ} 13\frac{1}{4}'$  E.



*Description.*—A black can buoy with truncated cone topmark.

*Variation.*—Nil.

*Chart affected.*—No. 2761, Chingkuk bay to the Strait of Sunda, with plan.

*Publication.*—China Sea Pilot, Vol. I, 1918, page 395.

*Authority.*—Hague Notice No. 490 of 1919. (H. 2642/19.)

### EASTERN ARCHIPELAGO.

*Misc.*—*Existence of Reefs northward of.*

*No. 174 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 828 of 1919), are republished:—

*Position.*—(a) Lat.  $1^{\circ} 46' 00''$  S., long.  $129^{\circ} 51' 30''$  E.

(b) Lat.  $1^{\circ} 45' 00''$  S., long.  $129^{\circ} 52' 00''$  E.

*Details.*—The existence of two reefs, believed to have a depth of less than 3 fathoms, are reported in approximately the above positions on chart No. 942b.

*Note.*—The positions given above are to be encircled by a danger line on the chart and marked with the note "*Less than 3 fms. repd. (1918)*".

*Chart affected.*—No. 942b, Eastern Archipelago, eastern portion, part II.

*Publication.*—Eastern Archipelago Pilot, Part III, 1911, page 109.

*Authority.*—Hague Notice No. 1877 of 1918. (H. 609/19.)

### CELEBES, EAST COAST—GULF OF TOMINI.

*Tanjong Tuladenggi*—*Shoal southward of.*

*No. 175 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 830 of 1919), are republished:—

*Position.*—At a distance of about 7 miles southward from Tanjong Tuladenggi.

Lat.  $0^{\circ} 17' 10''$  N., long.  $121^{\circ} 08' 30''$  E.

*Depth.*—3 fathoms (sand and coral).

*Chart affected.*—No. 900, Tilamuta harbour to Tanjong Tuladenggi.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 515.

*Authority.*—Hague Notice No. 510 of 1919. (H. 2647/19.)

### BORNEO, EAST COAST—MUARAS REEF.

*Sambit Islet Lighthouse*—*Reef southward of.*

*No. 176 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 831 of 1919), are republished:—

*Position.*—At a distance of  $2\frac{1}{2}$  miles,  $190^{\circ}$  (S.  $8^{\circ}$  W. *Mag.*) from Sambit islet lighthouse.

Lat.  $1^{\circ} 43\frac{1}{2}'$  N., long.  $119^{\circ} 01\frac{1}{2}'$  E.

*Depth.*—6 feet (coral).

*Remarks.*—The reef is about 550 yards long in an easterly and westerly direction and about 160 yards wide.

*Note.*—The symbol for a rock with a depth of less than 6 feet is to be inserted on the charts in the above position.

*Variation.*— $2^{\circ}$  E.

*Charts affected.*—No. 2636, North part of the Strait of Makassar.

„ 2660b, China sea, southern portion—eastern sheet.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 426.

*Authority.*—Hague Notice No. 489 of 1919. (H. 2641/19.)



## JAPAN, INLAND SEA—GULF OF OSAKA.

*Kobe Bay—Existence of Wreck.*

No. 177 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 833 of 1919), are republished :—

*Position.*—At a distance of 16 cables,  $47^{\circ}$  (N.  $52^{\circ}$  E. Mag.), from Wada Misaki lighthouse.

Lat.  $34^{\circ} 40\frac{1}{4}'$  N., long.  $135^{\circ} 12\frac{1}{4}'$  E.

*Description.*—Sunken wreck of the S.S. *Daisan Kyoei Maru*, with funnel showing 6 feet above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 2265, Kobe and Hyogo bays.

„ 16, Kobe and Osaka.

„ 3566, Izumi nada and Harima nada.

*Authority.*—Toyko Notice No. 357 of 1918. (H. 2612/19.)

## KOREA, WEST COAST—PING YANG INLET APPROACH.

*Cho Da Channel—Existence of Bank.*

No. 178 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 835 of 1919), are republished :—

*Position.*—Hombagu kaku, lat.  $38^{\circ} 35\frac{1}{4}'$  N., long.  $124^{\circ} 57\frac{1}{4}'$  E.

A shoal bank, with depths as given below, exists in the passage between Hombagu kaku and the northern end of Nai su :

Distance and bearing from  
Hombagu kaku  $\Delta$ .

Depth.

Distance and bearing from Hombagu kaku $\Delta$ .	Depth.
(a) 6 cables, $231^{\circ}$ (S. $56^{\circ}$ W. Mag.)	... $3\frac{1}{4}$ fathoms.
(b) $6\frac{1}{4}$ „ $238^{\circ}$ (S. $63^{\circ}$ W. Mag.)	... $4\frac{1}{4}$ „
(c) $5\frac{3}{10}$ „ $246^{\circ}$ (S. $71^{\circ}$ W. Mag.)	... 4 „
(d) $7\frac{1}{10}$ „ $248^{\circ}$ (S. $73^{\circ}$ W. Mag.)	... $3\frac{1}{4}$ „
(e) $9\frac{1}{10}$ „ $250^{\circ}$ (S. $75^{\circ}$ W. Mag.)	... $4\frac{1}{4}$ „

*Note.*—The above bank is to be encircled by a 5-fathom contour line, and the depth of 7 fathoms, formerly shown on the chart near the centre of this bank, is to be expunged.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1656, Ping yang inlet.

„ 1655, Southern approach to Ping yang inlet.

„ 1257, Approaches to Ping yang inlet and Yalu kiang.

„ 1256, Gulfs of Pe chih and Liau tung.

„ 1262, Hongkong to Gulf of Liau tung.

„ 2347, Honshū, Kiusiu and Shikoku, &c.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 583.

*Authority.*—Tokyo Notice No. 353 of 1918. (H. 2609/19.)

## JAPAN—HONSHŪ, EAST COAST.

*Ōtsura (Isohama)—Light extinguished.*

No. 179 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 841 of 1919), are republished :—

*Position.*—Lat.  $36^{\circ} 18\frac{1}{4}'$  N., long.  $140^{\circ} 34\frac{1}{4}'$  E.

*Description.*—An occulting white light.

*Remarks.*—This light is extinguished, and a note “(Extinguished 1919)” is to be inserted against it on the chart.



*Charts affected.*—No. 3334, Tokyo to Sendai bay.  
 „ 2347, Honshū, Kiusiu, and Shikoku, etc.  
 „ 781, Pacific ocean—north-west sheet.  
 „ 2459, North-west Pacific ocean, etc.

*Publications.*—List of Lights, Part VI., 1919, No. 2068.  
 Japan Pilot, 1914, page 229; Revised Supplement (1917).

*Authority.*—Tokyo Notice No. 377 of 1918. (H.2879/19.)

### CELEBES, SOUTH-EAST COAST—TIGER ISLANDS.

*Tambuna Islet—Reefs eastward of.*

*No. 180 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 847 of 1919), are republished:—

(i.) *Position.*—At a distance of about 6½ miles eastward from Tambuna islet.

Lat. 7° 02' 06" S., long. 121° 21' 12" E., on chart No. 3616.

(ii.) *Position.*—At a distance of about 7½ miles eastward from Tambuna islet.

Lat. 7° 00' 48" S., long. 121° 22' 36" E., on chart No. 3616.

*Description.*—Each a small reef which dries.

*Caution.*—A passage should not be attempted between these reefs and Ampalas and Tambuna islets, and a note to this effect is to be inserted on the charts.

*Charts affected.*—No. 3616, Tomori gulf to Salayar strait.  
 „ 942a, Eastern Archipelago—sheet 3.  
 „ 2759a, Australia—northern portion.

*Publication.*—Eastern Archipelago Pilot, Part II., 1913, page 321.

*Authority.*—Hague Notice No. 515 of 1919. (H. 2652/19.)

### JAPAN—HOKUSHU, SOUTH COAST.

*Hakodate Ko—Light established; Light-and-Bell-Buoy and Light-Buoys withdrawn.*

*No. 181 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 852 of 1919), are republished:—

#### 1. Light established:

*Position.*—On the northern extremity of the breakwater, which has now been completed, northward of Bentenzaki.

Bentenzaki, lat. 41° 46½' N., long. 140° 42' E.

*Abridged description.*—Lt. Occ. ev. 4 sec., 42 ft., vis. 11 m. (U.)

#### Characteristics:

*Character.*—An occulting white light every four seconds, thus:—

Light, 2 secs.	eclipse. 2 secs.
-------------------	---------------------

*Elevation.*—42 feet.

*Visibility.*—11 miles.

*Power.*—150 candles.

*Structure.*—Red iron framework on concrete base.

*Remarks.*—The light is unwatched.



## 2. Light-and-bell-buoy and light-buoys withdrawn:

*Details.*—The light-and-bell-buoy with siren, formerly situated about  $3\frac{1}{2}$  cables northward of the northern end of the breakwater, has been withdrawn, together with the light-buoys at the northern and southern ends of the breakwater.

*Charts affected.*—No. 2672, Hakodate ko.

„ 2441, Tsugaru kaikyo.

„ 3409, Ishinomaki wan and Sakato ko to Tsugaru kaikyo.

„ 452, Hokushu island.

„ 2405, The Kuril islands.

„ 2347, Honshu, Kiusiu and Shikoku, etc.

*Publications.*—List of Lights, Part VI, 1919, No. 2092.

Japan Pilot, 1914, pages 679, 680, 681; Revised Supplement, 1917.

*Authority.*—Tokyo Department of Communications Notices Nos. 145 and 149 of 1919, and Tokyo Notice No. 386 of 1918. (*H. 2535 & 2883/19.*)

## BAY OF BENGAL—ANDAMAN ISLANDS.

*Port Blair—Time Signal made twice weekly only.*

*No. 182 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 40-M., of 1919), are republished:—

Former Notice No. 1-M of 1919. (*This office No 35 of 1919.*)

*Approximate position of the Wireless Station.*—At a distance of about 2 cables westward of South Point.

Lat.  $11^{\circ} 40' N.$

Long.  $92^{\circ} 46' E.$

*Details.*—From the 3rd June 1919, the Time Ball at the Wireless Station will be dropped twice a week only, on Thursdays and Fridays, at 1h. 40m. p.m. (Local Time) corresponding to 19h. 30m. 00s. Greenwich Mean Time.

*Publications.*—Bay of Bengal Pilot, 1910, page 399, Revised Supplement No. 3, 1918.

List of Lights and Time Signals, Part VI, 1919, page 451.  
Indian List of Lights and Time Signals, 37th issue, 1918, page 60.

*Authority.*—The Engineer and Harbour Master, Port Blair, dated 10th May 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, JULY 9, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 3rd July 1919.

#### EASTERN ARCHIPELAGO—NETHERLANDS EAST INDIES.

##### *Distress Signals with regard to Hydro-Aeroplanes.*

No. 189 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 948 of 1919), are republished :—

Netherlands hydro-aeroplanes in the East Indies when in distress will make the following signals by means of pyrotechnic lights :—

Signal.	Signification.
(a) A white pyrotechnic light	... Aerodrome to send a motor boat.
(b) A red " "	... Aeroplane requires immediate assistance.

All persons observing these signals should in case (a) communicate by telephone to the aerodrome, and in case (b) send a boat to assist the hydro-aeroplane with all possible dispatch.

*Publications.*—China Sea Pilot, Vol. I, 1916, page 30.

China Sea Pilot, Vol. II, 1915, page 10.

Eastern Archipelago Pilot, Part II, 1913, page 14.

Eastern Archipelago Pilot, Part III, 1911, page 18.

*Authority.*—Hague Notice No. 920 of 1919. (H. 3620/19.)



JAPAN, INLAND SEA—KURO SHIMA SUIDO.

*Kurahashi Approach—Existence of Rock.*

*No. 190 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 959 of 1919), are republished :—

*Position.*—At a distance of about 9 cables southward from Nagakushizaki.

Lat.  $34^{\circ} 04' 30''$  N., long.  $132^{\circ} 30' 25''$  E., on chart No. 3469.

*Depth.*— $4\frac{1}{2}$  fathoms.

*Remarks.*—The anchorage symbol hitherto shown on the charts at a distance of about  $3\frac{1}{2}$  cables north-westward from the above rock is to be expunged.

*Charts affected.*—No. 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi) or Inland Sea.

*Publication.*—Japan Pilot, 1914, page 376.

*Authority.*—Tokyo Notice No. 373 of 1919. (H. 2876/19.)

PORTUGUESE EAST AFRICA.

*Mozambique—Caution with regard to Vessels Anchoring.*

*No. 191 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 960 of 1919), are republished :—

*Position.*—Mozambique island, lat.  $15^{\circ} 02\frac{1}{2}'$  S., long.  $40^{\circ} 44\frac{1}{2}'$  E.

*Details.*—The following cautionary note is to be placed on the charts :—

“Vessels are cautioned against anchoring in the channels east of Mozambique island, as there is great danger of breaking the telegraph cables.”

*Remarks.*—The anchorage symbols in the above vicinity are to be expunged from the charts.

*Charts affected.*—No. 652, Mozambique harbour.

„ 653, Ports of Conducia, Mozambique and Mokambo.

*Publication.*—Africa Pilot, Part III, 1915, page 282.

*Authority.*—Senior Naval Officer, East Coast of Africa. (H. 2988/19.)

INDIA—WEST COAST.

*Ratnagiri Light—Arc of Illumination.*

*No. 192 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 43M. of 1919), are republished :—

*Position.*—Lat.  $16^{\circ} 59'$  N.

Long.  $73^{\circ} 16'$  E.

*Arc of Illumination.*—Visible from  $357^{\circ}$  through north to  $157^{\circ}$ .

*Charts affected.*—No. 56, Ratnagiri Bay.

„ 739, Boria Pagoda to Malvan.

„ 2736, Gulf of Kutch to Viziadrug.

„ 826, Karachi to Vengurla.

*Publications.*—List of Lights, Part VI, 1919, No. 411.

Indian List of Lights, 37th issue, 1918, No. 112.

West Coast of India Pilot, 1909, page 193.

*Authority.*—The Director, Royal Indian Marine, Bombay, dated 10th June 1919.



## INDIA—WEST COAST.

*Bhatkal Light—Arc of Illumination.*

*No. 193 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 44M. of 1919) are republished :—

*Position.*—Lat.  $13^{\circ} 58' N.$   
Long.  $74^{\circ} 31' E.$

*Arc of Illumination.*—Visible from  $301^{\circ}$  through north to  $166^{\circ}$ .

*Note.*—The light is obscured by Hog Island between the bearings of  $129^{\circ}$  to  $132^{\circ}$ .

*Charts affected.*—No. 744, Cape Ramas to Alvagddda.  
„ 2736, Gulf of Kutch to Viziadrag.  
„ 826, Karachi to Vengurla.

*Publications.*—List of Lights, Part VI, 1919, No. 442.  
Indian List of Lights, 37th issue, 1918, No. 135.  
West Coast of India Pilot, 1909, page 156.

*Authority.*—The Director, Royal Indian Marine, Bombay, dated 10th June 1919.

## WEST COAST OF INDIA.

*Bombay Harbour—Alteration in Pilot Station.*

*No. 194 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 45M. of 1919), are republished :—

*Position.*—At a distance of about 8 cables  $135^{\circ}$  (S.  $45^{\circ}$  E. Mag.) from Sunk Rock Lighthouse—

Lat.  $18^{\circ} 52' 45'' N.$   
Long.  $72^{\circ} 50' 35'' E.$

*Note.*—The pecked lines, wording, and note shewing the usual position of the Pilot schooner; also cruising ground during the S. W. Monsoon is to be expunged from Admiralty Chart No. 2621.

*Variation.*—Nil.

*Chart affected.*—No. 2621, Bombay Harbour.

*Publication affected.*—West Coast of India Pilot, 1909, page 223.

*Authority.*—The Port Officer, Bombay, dated 1st May 1919.

## AUSTRALIA, EAST COAST—INNER BARRIER ROUTE.

*Meaburn Rock—Buoy to be re-established.*

*No. 195 (first publication).*—The following Notice to Mariners (No. 3 of 1919), issued by the Comptroller-General of Customs, Melbourne, is republished :—

“With reference to Queensland Marine Department's Notice No. 11 of 1918, Mariners and others are hereby notified that the Meaburn Rock Buoy will be re-established on or about 15th July 1919.

*Position (approximate).*—The Buoy will be moored in 8 fathoms of water on the south-east side of Meaburn Rock, at a distance of  $6\frac{1}{2}$  miles,  $350^{\circ}$  (N.  $17^{\circ}$  W. Mag.) from the North Barnard Light-house, and  $2\frac{1}{2}$  miles,  $35^{\circ}$  (N.  $28^{\circ}$  E. Mag.) from Hull Point.  
Lat.  $17^{\circ} 34' S.$ ; Long.  $146^{\circ} 10' E.$  on Chart No. 2350.



*Description.*—A red cask buoy.

*Note.*—No further notice will be given.

*Charts affected.*—No. 2350, Double Point to Cape Grafton.

„ 2763, Coral Sea and Great Barrier Reefs, sheet I.

„ 2759a, Australia, northern portion.

„ 780, Pacific Ocean, South-west sheet.

*Publications.*—Australia Pilot, Vol. IV, 1917, page 180.

Sailing Directions and other information for the Ports and Harbours of Queensland, 1919, pages 44 and 157.

#### INDIA, WEST COAST—ALLEPPEY.

*Nircum*—Smooth water anchorage off.

No. 196 (*first publication*).—The Principal Port Officer, Alleppey, has given Notice, dated the 5th June 1919, that smooth water will be found 1 mile south of Nircum and 7 miles south of Alleppey. A temporary flagstaff will be erected and an occasional red light shown when steamers are expected.

#### BAY OF BENGAL—BURMA COAST.

*East of Baragua flats light-vessel—Existence of a wreck.*

No. 197 (*first publication*).—

*Subject.*—The Master of the S. S. “Martaban” reports having sighted what appeared to be a wreck 6' due east of Baragua flats light-vessel.

*Position.*—Lat. 15° 29' N., long. 95° 17' E.

*Remarks.*—Only about 3 feet of the masts were visible above water, and the wreck was apparently aground.

*Caution.*—Mariners are hereby warned.

*Charts affected.*—No. 823, Koronge island to White Point.

„ 830, Bassein river to Pulo Penang.

„ 70, Bay of Bengal.

*Authority.*—Principal Port Officer, Burma, Rangoon, Notice dated 25th June 1919.

The 23rd June 1919.

#### PERSIAN GULF.

*Shatt-al-Arab River Entrance—Amended position of Tidal Semaphore and Fairway Gas Buoy.*

No. 186 (*second publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 42-M. of 1919), are republished:—

Former Notice No. 22-M. of 1919. (This Office No. 99 of 1919.)

*Details.*—The amended position of the Tidal Semaphore and the Fairway Gas Buoy is as follows:—

(a) Amended position of Tidal Semaphore.

Lat. 29° 50' 13.92" N.

Long. 48° 42' 46.38" E.

(b) Amended position of Fairway Gas Buoy.

Lat. 29° 47' 55.14" N.

Long. 48° 44' 55.68" E.



*Chart affected.*—No. 1235, Mouth of the Euphrates.

*Publications.*—Persian Gulf Pilot, 1915, page 281.

Indian List of Lights, 37th issue, 1918, No. 29.

*Authority.*—The Port Officer, Basrah.

Dated 28th April 1919.

INDIA, WEST—TRAVANCORE COAST.

*Entrance to Quilon Roadstead—Buoys removed for S.-W. Monsoon.*

*No. 187 (second publication).*—The Principal Port Officer, Alleppey, has given notice, dated the 16th May 1919, that the buoys marking the entrance to the Quilon Roadstead have been removed for the S.-W. Monsoon and will be replaced on or about the 15th September 1919.

INDIA, WEST—TRAVANCORE COAST, KOLACHEL.

*Patna rock red buoy—Removed for S.-W. Monsoon.*

*No. 188 (second publication).*—The Principal Port Officer, Alleppey, has given notice, dated the 23rd May 1919, that the Patna rock red buoy has been removed for the S.-W. Monsoon and will be replaced on or about the 15th September 1919.

The 17th June 1919.

INDIA, WEST COAST—PORT DABHOL.

*Talkeshwar Light re-exhibited, Provisional Light discontinued.*

*No. 183 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 41-M of 1919), are republished :—

Former Notice No. 24-M of 1919. (*This Office No. 101 of 1919.*)

*Position* ... Talkeshwar point, south entrance to harbour.  
Lat. 17° 34' N.  
Long. 73° 09' E.

*Details* ... The provisional light which was temporarily exhibited on Talkeshwar point has been discontinued and the original fixed white light has been re-exhibited.

*Charts affected* No. 738, Kundari Island to Boria Pagoda.  
„ 2736, Gulf of Kutch to Vaziadrug.  
„ 826, Karachi to Vengurla.

*Publications...* List of Lights, Part VI, 1919, No. 405.  
Indian List of Lights, 37th issue, 1918, No. 108.  
West Coast of India Pilot, 1909, page 200.

*Authority* ... The Deputy Commissioner of Salt and Excise, Southern Division, dated 22nd May 1919.



## AUSTRALIA—TORRES STRAIT, WESTERN APPROACH

## LIGHT-VESSEL (U) TO BE ESTABLISHED.

No. 184 (third publication).—

*Former Notices.*—Nos. 347 of 1918 and 43 of 1919.

*Subject.*—A Light-Vessel will be established in the western approach to Torres Strait, on or about 15th June, 1919.

*Position* (approximate).—The Light-Vessel will be moored in about 20 fathoms of water, at a distance of 20 miles ( $240^{\circ}$  S.  $55^{\circ}$  W. Mag.) from Merkara Shoal.

Lat.  $10^{\circ} 40'$  S., long.  $140^{\circ} 55'$  E. on Chart No. 447.

*Characteristics.*—(a) *Light:*

*Character.*—Group flashing white light, showing three flashes in quick succession every fifteen seconds, thus:—

Flash,	Eclipse	Flash,	Eclipse,	Flash,	Eclipse,
$\frac{1}{2}$ sec.	$1\frac{1}{4}$ secs.	$\frac{1}{2}$ sec.	$1\frac{1}{4}$ secs.	$\frac{1}{2}$ sec.	$10\frac{1}{4}$ secs.

*Elevation.*—32 feet.

*Visibility.*—10 miles.

*Power.*—1,500 candles.

(b) *Fog Signal:*

*Description.*—A bell sounded by the motion of the vessel.

(c) *Vessel:*

*Description.*—The vessel has one mast carrying the lantern; the hull is painted red and marked "Carpentaria" in white on sides.

*Remarks.*—The light will be unwatched.

*Note.*—No further notice will be given.

*Charts Affected.*—No. 447, Torres Strait, Western approaches.

„ 2739a, Australia, Northern portion.

„ 780, Pacific Ocean, South-west sheet.

*Publications.*—List of Lights and Time Signals, Part VI., 1919, No. 2752.

Australia Pilot, Vol. III., 1916, page 245.

*Authority.*—Melbourne Notice No. 1 of 1919.

## AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Cape Liptrap Light (U)*—Intended alteration in Characteristics.

No. 185 (third publication).—

*Subject.*—The Group Flashing White Light on Cape Liptrap will be altered as set out hereunder, on or about 1st September 1919.

*Position.*—Lat.  $38^{\circ} 54\frac{1}{2}'$  S., long.  $145^{\circ} 55\frac{1}{2}'$  E. on Chart No. 3169.



*Details.*—The group flashing white light showing two flashes every ten seconds will be replaced by a new light having the undermentioned characteristics—

*Character.*—Group flashing white light, showing three flashes in quick succession every fifteen seconds, thus:—

Flash,	Eclipse,	Flash,	Eclipse,	Flash,	Eclipse,
$\frac{1}{4}$ sec.	1 sec.	$\frac{1}{4}$ sec.	1 sec.	$\frac{1}{4}$ sec.	$11\frac{1}{4}$ secs.

*Remarks.*—The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 3169, Port Phillip to Gabo Island.  
 „ 1695b, Bass Strait, Western sheet.  
 „ 788, Melbourne to Cape Horn, Western sheet.  
 „ 2759b, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2492.

Australia Pilot, Vol. II, 1918, page 170.

*Authority.*—Melbourne Notice No. 2 of 1919.

W. K. THYNE, COMDR., R.I.M.,  
 Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, JULY 16. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 10th July 1919.

#### INDIA—WEST COAST.

##### *Goa, Mandovi River—Annual Extinction of Leading Lights.*

No. 198 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 46-M. of 1919) are republished:—

*Subject.*—The Lights at Campal, Malim, Reis-Magos, Verem, and Marca-Tejo, will not be lighted from the 15th June to 15th August 1919, during the South-West Monsoon.

*Charts temporarily affected.*—No. 492, Aguada to St. George Island.  
„ 740, Achra River to Cape Ramas.

*Authority.*—The Captain of the Ports of Portuguese India, dated 19th May 1919.

#### INDIA, WEST COAST—KATHIAWAR.

##### *Diu—Annual Extinction of Lights.*

No. 199 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 47-M. of 1919) are republished:—

*Subject.*—The Lights of Forte de Mar, Couraca, Forte de Simbor and Forte de Barra at Brancavara will not be lighted from 15th June to 31st August 1919.

*Charts temporarily affected.*—No. 50, Din Head to Goapnath Point.  
„ 2736, Gulf of Kutch to Viziadrag.  
„ 826, Karachi to Vengurla.

*Authority.*—The Captain of the Ports of Portuguese India, dated 19th May 1919.



## INDIA—WEST COAST.

*Buoys between Bankot and Bhatkal removed for the South-West Monsoon.*

No. 200 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 49-M. of 1919) are republished:—

*Details.*—The following mark and buoys were removed from their position, for the South-West Monsoon, on the dates noted against them:—

Bankot Bar Buoys (3 in number)	...	10th May 1919.
Ambalgarh Reef Buoy	...	16th " "
Malvan Rock Buoy	...	18th " "
Malvan Inner Harbour Buoys (2 in number)	...	23rd " "
Malvan Red Light Boat	...	23rd " "
Malvan Fort Harbour Buoy	...	24th " "
Malvan Johnston Castle Rock Buoy	...	23rd " "
Malvan Rajkot Fort Buoy	...	24th " "
Chaldea Rock Buoy	...	17th " "
Vengurla Bubra Rock Buoy	...	23rd " "
Vengurla South Rock Buoy	...	25th " "
Bhatkul Rock Buoy	...	16th " "
Modeshwar Dart Rock Buoy	...	11th " "

*Authority.*—The Deputy Commissioner of Salt and Excise, Southern Division, Dhárwar, dated 16th June 1919.

## BAY OF BENGAL.

*Caution. Report of a large piece submerged wreckage*

No. 201 (first publication).—

*Subject.*—The Master of the SS. "Garryvale" reports having passed a large piece submerged wreckage just awash in the following position:—

*Position.*—Lat. 18° 35' N., long. 86° 51' E.

*Caution.*—Mariners are hereby warned.

*Charts affected.*—No. 829, Cocanada to Bassein River.  
" 70, Bay of Bengal.

*Authority.*—Master of the SS. "Garryvale" telegram, dated 9th July 1919.

The 3rd July 1919.

## EASTERN ARCHIPELAGO—NETHERLANDS EAST INDIES.

*Distress Signals with regard to Hydro-Aeroplanes.*

No. 189 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 948 of 1919), are republished:—

Netherlands hydro-aeroplanes in the East Indies when in distress will make the following signals by means of pyrotechnic lights:—

Signal.	Signification.
(a) A white pyrotechnic light	Aerodrome to send a motor boat.
(b) A red " "	Aeroplane requires immediate assistance.



All persons observing these signals should in case (a) communicate by telephone to the aerodrome, and in case (b) send a boat to assist the hydro-aeroplane with all possible dispatch.

*Publications.*—China Sea Pilot, Vol. I, 1916, page 30.  
China Sea Pilot, Vol. II, 1915, page 10.  
Eastern Archipelago Pilot, Part II, 1913, page 14.  
Eastern Archipelago Pilot, Part III, 1911, page 18.  
*Authority.*—Hague Notice No. 920 of 1919. (H. 3620/19.)

#### JAPAN, INLAND SEA—KUBO SHIMA SUIDO.

##### *Kurahashi Approach—Existence of Rock.*

*No. 190 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 959 of 1919), are republished :—

*Position.*—At a distance of about 9 cables southward from Nagakushi zaki.

Lat.  $34^{\circ} 04' 30''$  N., long.  $132^{\circ} 30' 25''$  E., on chart No. 3469.

*Depth.*— $4\frac{1}{2}$  fathoms.

*Remarks.*—The anchorage symbol hitherto shown on the charts at a distance of about  $3\frac{1}{2}$  cables north-westward from the above rock is to be expunged.

*Charts affected.*—No. 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi) or Inland Sea.

*Publication.*—Japan Pilot, 1914, page 376.

*Authority.*—Tokyo Notice No. 373 of 1919. (H. 2876/19.)

#### PORTUGUESE EAST AFRICA.

##### *Mozambique—Caution with regard to Vessels Anchoring.*

*No. 191 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 960 of 1919), are republished :—

*Position.*—Mozambique island, lat.  $15^{\circ} 02\frac{1}{2}'$  S., long.  $40^{\circ} 44'$  E.

*Details.*—The following cautionary note is to be placed on the charts :—

“Vessels are cautioned against anchoring in the channels east of Mozambique island, as there is great danger of breaking the telegraph cables.”

*Remarks.*—The anchorage symbols in the above vicinity are to be expunged from the charts.

*Charts affected.*—No. 652, Mozambique harbour.

„ 653, Ports of Conducia, Mozambique and Mokambo.

*Publication.*—Africa Pilot, Part III, 1915, page 282.

*Authority.*—Senior Naval Officer, East Coast of Africa. (H. 2988/19.)

#### INDIA—WEST COAST.

##### *Ratnagiri Light—Arc of Illumination.*

*No. 192 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 43M. of 1919), are republished :—

*Position.*—Lat.  $16^{\circ} 59'$  N.

Long.  $73^{\circ} 16'$  E.

*Arc of Illumination.*—Visible from  $357^{\circ}$  through north to  $157^{\circ}$ .



*Charts affected.*—No. 56, Ratnagiri Bay.  
 „ 739, Boria Pagoda to Malvan.  
 „ 2736, Gulf of Kutch to Viziadrug.  
 „ 826, Karachi to Vengurla.

*Publications.*—List of Lights, Part VI, 1919, No. 411.  
 Indian List of Lights, 37th issue, 1918, No. 112.  
 West Coast of India Pilot, 1909, page 193.

*Authority.*—The Director, Royal Indian Marine, Bombay, dated 10th June 1919.

#### INDIA—WEST COAST.

##### *Bhatkal Light—Arc of Illumination.*

*No. 193 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 44M. of 1919) are republished :—

*Position.*—Lat.  $13^{\circ} 58' N.$   
 Long.  $74^{\circ} 31' E.$

*Arc of Illumination.*—Visible from  $301^{\circ}$  through north to  $166^{\circ}$ .

*Note.*—The light is obscured by Hog Island between the bearings of  $129^{\circ}$  to  $132^{\circ}$ .

*Charts affected.*—No. 744, Cape Ramas to Alvagudda.  
 „ 2736, Gulf of Kutch to Viziadrug.  
 „ 826, Karachi to Vengurla.

*Publications.*—List of Lights, Part VI, 1919, No. 442.  
 Indian List of Lights, 37th issue, 1918, No. 135.  
 West Coast of India Pilot, 1909, page 156.

*Authority.*—The Director, Royal Indian Marine, Bombay, dated 10th June 1919.


#### WEST COAST OF INDIA.

##### *Bombay Harbour—Alteration in Pilot Station.*

*No. 194 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 45M. of 1919), are republished :—

*Position.*—At a distance of about 8 cables  $135^{\circ}$  (S.  $45^{\circ}$  E. Mag.) from Sunk Rock Lighthouse—

Lat.  $18^{\circ} 52' 45'' N.$   
 Long.  $72^{\circ} 50' 35'' E.$

*Note.*—The pecked lines, wording, , and note shewing the usual position of the Pilot schooner; also cruising ground during the S. W. Monsoon is to be expunged from Admiralty Chart No. 2621.

*Variation.*—Nil.

*Chart affected.*—No. 2621, Bombay Harbour.

*Publication affected.*—West Coast of India Pilot, 1909, page 223.

*Authority.*—The Port Officer, Bombay, dated 1st May 1919.

#### AUSTRALIA, EAST COAST—INNER BARRIER ROUTE.

##### *Meaburn Rock—Buoy to be re-established.*

*No. 195 (second publication).*—The following Notice to Mariners (No. 3 of 1919), issued by the Comptroller-General of Customs, Melbourne, is republished :—

“ With reference to Queensland Marine Department's Notice No. 11 of 1918, Mariners and others are hereby notified that the Meaburn Rock Buoy will be re-established on or about 15th July 1919.



*Position (approximate).—*The Buoy will be moored in 8 fathoms of water on the south-east side of Meaburn Rock, at a distance of  $6\frac{1}{2}$  miles,  $350^{\circ}$  (N.  $17^{\circ}$  W. Mag.) from the North Barnard Light-house, and  $2\frac{1}{2}$  miles,  $35^{\circ}$  (N.  $28^{\circ}$  E. Mag.) from Hull Point.  
Lat.  $17^{\circ} 34'$  S.; Long.  $146^{\circ} 10'$  E. on Chart No. 2350.

*Description.*—A red cask buoy.

*Note.*—No further notice will be given.

*Charts affected.*—No. 2350, Double Point to Cape Grafton.  
„ 2763, Coral Sea and Great Barrier Reefs, sheet I.  
„ 2759a, Australia, northern portion.  
„ 780, Pacific Ocean, South-west sheet.

*Publications.*—Australia Pilot, Vol. IV, 1917, page 190.  
Sailing Directions and other information for the Ports and Harbours of Queensland, 1919, pages 44 and 157.”

#### INDIA, WEST COAST—ALLEPPEY.

*Nircum—Smooth water anchorage off.*

*No. 196 (second publication).*—The Principal Port Officer, Alleppey, has given Notice, dated the 5th June 1919, that smooth water will be found 1 mile south of Nircum and 7 miles south of Alleppey. A temporary flagstaff will be erected and an occasional red light shown when steamers are expected.

#### BAY OF BENGAL—BURMA COAST.

*East of Baragua flats light-vessel—Existence of a wreck.*

*No. 197 (second publication).*—

*Subject.*—The Master of the S. S. “Martaban” reports having sighted what appeared to be a wreck  $6'$  due east of Baragua flats light-vessel.

*Position.*—Lat.  $15^{\circ} 29'$  N., long.  $95^{\circ} 17'$  E.

*Remarks.*—Only about 3 feet of the masts were visible above water, and the wreck was apparently aground.

*Caution.*—Mariners are hereby warned.

*Charts affected.*—No. 823, Koronge island to White Point.

„ 830, Bassein river to Pulo Penang.

„ 70, Bay of Bengal.

*Authority.*—Principal Port Officer, Burma, Rangoon, Notice dated 25th June 1919.

The 23rd June 1919.

#### PERSIAN GULF.

*Shatt-al-Arab River Entrance—Amended position of Tidal Semaphore and Fairway Gas Buoy.*

*No. 186 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 42-M. of 1919), are republished:—

Former Notice No. 22-M. of 1919. (This Office No. 99 of 1919.)

*Details.*—The amended position of the Tidal Semaphore and the Fairway Gas Buoy is as follows:—

(a) Amended position of Tidal Semaphore.

Lat.  $29^{\circ} 50' 13.92''$  N.

Long.  $48^{\circ} 42' 46.38''$  E.



(b) Amended position of Fairway Gas Buoy.

Lat.  $29^{\circ} 47' 55.14''$  N.

Long.  $48^{\circ} 44' 55.68''$  E.

*Chart affected.*—No. 1235, Mouth of the Euphrates.

*Publications.*—Persian Gulf Pilot, 1915, page 281.

Indian List of Lights, 37th issue, 1918, No. 29.

*Authority.*—The Port Officer, Basrah.

Dated 28th April 1919.

INDIA, WEST—TRAVANCORE COAST.

*Entrance to Quilon Roadstead—Buoys removed for S.-W. Monsoon.*

No. 187 (*third publication*).—The Principal Port Officer, Alleppey, has given notice, dated the 16th May 1919, that the buoys marking the entrance to the Quilon Roadstead have been removed for the S.-W. Monsoon and will be replaced on or about the 15th September 1919.

INDIA, WEST—TRAVANCORE COAST, KOLACHEL.

*Patna rock red buoy—Removed for S.-W. Monsoon.*

No. 188 (*third publication*).—The Principal Port Officer, Alleppey, has given notice, dated the 23rd May 1919, that the Patna rock red buoy has been removed for the S.-W. Monsoon and will be replaced on or about the 15th September 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, JULY 23. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 14th July 1919.

#### KOREA, EAST COAST.

*Kochin Kutchii*—Obstruction reported north-eastward of.

No. 202 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 978 of 1919), are republished:—

*Position (approximate)*.—At a distance of about 1½ miles north-eastward from Kochin Kutchii.

Lat.  $37^{\circ} 28' 35''$  N., long.  $129^{\circ} 12' 41''$  E.

*Details*.—A vessel drawing 18½ feet reports having touched a submerged obstruction in the above position.

*Remarks*.—The position is to be encircled by a danger line and marked "*Obstruction repd. (1919) (posn. approx.)*."

*Chart affected*.—No. 882, Chukupen bay to Suon Kutchi.

*Publication*.—E.C. Korea, &c., Pilot, 1913, page 98.

*Authority*.—Tokyo Notice No. 17 of 1919. (H. 3402/19.)

#### JAPAN—INLAND SEA, IYO NADA.

*Goyo Sima Anchorage*—Wreck removed.

No. 203 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 979 of 1919), are republished:—

*Former Notice* No. 678 of 1919. (*This Office No. 141 of 1919.*)

*Position*.—At a distance of about 5½ cables eastward from Kimisaki Iso.

Lat.  $33^{\circ} 54\frac{1}{2}'$  N., long.  $132^{\circ} 42'$  E.



*Description.*—The wreck of the SS. *Daishi Aioi Maru*, formerly situated in the above position, has been salved and the wreck symbol is to be expunged from the charts.

*Charts affected.*—No. 694, Plan of Gogo sima and Horiyé anchorages.

„ 83, Gogo shima to Miyo shima.

„ 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 33 of 1919. (H. 3463/19.)

#### SOUTH AUSTRALIA—SPENCER'S GULF, EAST COAST.

##### *Wallaroo—Alteration in Character of Light.*

No. 204 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 981 of 1919), are republished:—

*Position.*—On the outer end of the jetty.

Lat.  $33^{\circ} 55\frac{1}{2}'$  S., long.  $137^{\circ} 37'$  E.

*New abridged description.*—Lt. Fl., W.R., ev. 2 sec, 30 ft., vis. 7 m.

*Alteration.*—The character of the light has been altered from fixed red and green to *flashing every two seconds*, with white and red sectors, thus:—

Flash,	eclipse.
$\frac{8}{10}$ secs.	$\frac{2}{10}$ secs.

*Remarks.*—The red sectors remain unaltered and the white light shows over the former limits of the green sector.

*Charts affected.*—No. 402, Tickera point to Cape Elizabeth.

„ 2389, St. Vincent and Spencer gulfs.

*Publication.*—List of Lights, Part VI, 1919, No. 2325.

*Authority.*—Adelaide Harbour Board Notice No. 6 of 1918. (H. 3131/19.)

#### JAPAN, INLAND SEA—HIUCHI NADA.

##### *Okino Se—Decreased Depth.*

No. 205 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 982 of 1919), are republished:—

*Position.*—Lat.  $34^{\circ} 06\frac{1}{2}'$  N., long.  $133^{\circ} 06'$  E.

*Details.*—The depth over this rock is  $3\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms as hitherto shown on the charts.

*Charts affected.*—No. 83, Gogo shima to Miyo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, page 328.

*Authority.*—Tokyo Notice No. 32 of 1919. (H. 3462/19.)



JAPAN—HONSHU, NORTH-WEST COAST.

*Wakasa Bay—Fishing Area.*

*No. 206 (first publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 985 of 1919), are republished :—

*Details.*—Fishing is carried out within the undermentioned area from July to October, annually :—

The area is bounded by lines joining the following positions :—

- (a) Lat.  $36^{\circ} 03' 45''$  N., long.  $135^{\circ} 35' 45''$  E.
- (b) Lat.  $35^{\circ} 57' 05''$  N., long.  $135^{\circ} 36' 00''$  E.
- (c) Lat.  $35^{\circ} 51' 40''$  N., long.  $135^{\circ} 24' 15''$  E.
- (d) Lat.  $36^{\circ} 03' 40''$  N., long.  $135^{\circ} 27' 15''$  E.

*Note.*—The above area is to be indicated on the charts in pecked lines and marked “From 1st July to 30th October, annually, vessels should navigate with caution within this area, buoys being laid out for fishing purposes (1918.)”

*Charts affected.*—No. 2174, Amarube zaki to Ando zaki, &c.  
 „ 1495, Aburatani bay to Ando zaki.

*Publication.*—Japan Pilot, 1914, page 615.

*Authority.*—Tokyo Notice No. 369 of 1918. (H. 2874/19.)

JAPAN, INLAND SEA—AKI.

*Hiroshima Approach—Existence of Wreck.*

*No. 207 (first publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 992 of 1919), are republished :—

*Position.*—At a distance of about 17 cables eastward from Ko Nasami jima lighthouse.

Lat.  $34^{\circ} 17' 55''$  N., long.  $132^{\circ} 23' 20''$  E., on chart No. 3469.

*Description.*—A sunken wreck, with mast visible above water.

*Charts affected.*—No. 3469, Hiroshima wan.  
 „ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 16 of 1919. (H. 3401/19.)

JAPAN, INLAND SEA—HONSHŪ.

(1) *Uchi No Umi Approaches—Existence of Rocks.*

(2) *Koguro Jima—Rock south-eastward of.*

*No. 208 (first publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1001 of 1919), are republished :—

(1) *Uchi No Umi Approaches.*

(i) *Position.*—At a distance of about 2½ cables southward from Kashiwa shima summit.

Lat.  $34^{\circ} 15' 47''$  N., long.  $132^{\circ} 46' 00''$  E.

*Depth.*—1½ fathoms.



*Remarks.*—This rock is known as "Kobushi so ba."

*Note.*—This rock is the outer extremity of a reef which extends to the southward from the south-eastern end of Kashiwa shima.

(ii) *Position.*—At a distance of about 2½ cables north-westward from the western extreme of Oshiba shima.

Lat.  $34^{\circ} 16' 32''$  N., long.  $132^{\circ} 46' 50''$  E.

*Depth.*—2 fathoms.

*Remarks.*—This rock is known as "Kajikake iwa."

(iii) *Position.*—At a distance of about 4½ cables eastward from Oshiba shima 372-foot summit.

Lat.  $34^{\circ} 16' 35''$  N., long.  $132^{\circ} 48' 32''$  E.

*Depth.*—Three-quarters of a fathom.

*Remarks.*—This rock, which is to be shown on the charts by the symbol for a rock with a depth of less than 6 feet, is known as "Kami no su."

*Note.*—Foul ground extends to the south-westward of this rock as far as the south-eastern side of Oshiba shima.

## (2) Koguro Jima.

*Position.*—At a distance of about 3 cables south-eastward from Koguro jima 347-foot summit.

Lat.  $34^{\circ} 09' 00''$  N., long.  $132^{\circ} 39' 04''$  E.

*Depth.*—4 fathoms.

*Remarks.*—This rock is known as "Otono no ishi."

*Note.*—The above positions refer to chart No. 3325.

*Charts affected.*—No. 3325, Channels between Neko seto and Mekari seto.

„ 83, Gogo shima to Miyo shima.

„ 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, page 360.

*Authority.*—Tokyo Notice No. 19 of 1919. (H. 3404/19.)

## BORNEO—NORTH-EAST COAST.

*Tambisan Island*—Rock reported north-westward of.

*No. 209 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1002 of 1919), are republished:—

*Position (approximate).*—At a distance of about 6 miles north westward from Tambisan island summit.

Lat.  $5^{\circ} 32' 30''$  N., long.  $119^{\circ} 04' 40''$  E., on chart No. 1868.

*Depth.*—About 2 feet.

*Note.*—The rock is marked by discoloured water.

*Remarks.*—The symbol for a rock with a depth of less than 6 feet is to be inserted on the charts in the above position with the note "Reported (1918) (posn. approx.)."

*Charts affected.*—No. 1868, Taganak to Tawi Tawi.

„ 2576, Sulu archipelago, and north-east coast of Borneo.

„ 2660b, China sea, southern portion—eastern sheet.

*Publication.*—Eastern Archipelago Pilot, Part I, 1911, page 176.

*Authority.*—Tokyo Notice No. 12 of 1919. (H. 3404/19.)



JAPAN, INLAND SEA—IYO NADA.

*Sago No Seto—Existence of Wreck, marked by Buoy and Light.*

No. 210 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1004 of 1919), are republished:—

*Position (approximate).*—At a distance of about half a mile southward from Sago shima 370-foot summit.

Lat.  $33^{\circ} 51' 45''$  N., long.  $132^{\circ} 03' 45''$  E.

*Description.*—Sunken wreck of the sailing vessel *Dempō Maru*.

*Remarks.*—The wreck is marked by a buoy and flag and at night by a light.

*Note.*—A note "*Marked by buoy and Lt. (posn. approx.)*" is to be inserted on the charts against this wreck.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 376 of 1918. (*H. 2878/19.*)

JAPAN, INLAND SEA—HONSHŪ.

*Hakata Seto and Approaches—Existence of Rocks.*

No. 211 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1016 of 1919), are republished:—

(i) *Position.*—At a distance of about  $3\frac{1}{2}$  cables north-westward from Stone beacon.

Lat.  $34^{\circ} 15' 49''$  N., long.  $133^{\circ} 03' 03''$  E.

*Depth.*— $6\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as "Chitori ishi."

(ii) *Position.*—At a distance of about  $2\frac{1}{2}$  cables north-westward from the northern extremity of Hakata jima.

Lat.  $34^{\circ} 14' 39''$  N., long.  $133^{\circ} 05' 55''$  E.

*Depth.*— $5\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as "Kanzaki dashi."

(iii) *Position.*—At a distance of about 4 cables north-westward from Akone shima 433-foot summit.

Lat.  $34^{\circ} 14' 36''$  N., long.  $133^{\circ} 08' 49''$  E.

*Depth.*— $2\frac{1}{2}$  fathoms.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, page 353.

*Authority.*—Tokyo Notice No. 20 of 1919. (*H. 3405/19.*)

JAPAN—HONSHŪ, SOUTH COAST.

*Nagoya Ko—Alteration in Dredged Channel Leading Lights.*

No. 212 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1021 of 1919), are republished:—

1. Alteration in characteristics of front light:

*Position.*—Lat.  $35^{\circ} 05' 18''$  N., long.  $136^{\circ} 52' 32''$  E.

*New abridged description.*—Lt. Alt., Red Gn. ev. 10 sec., 33 ft.  
vis. 11 m.



*Details.*—The alternating white and red light has been replaced by a light having the undermentioned characteristics :—

*Character.*—An alternating red and green light every ten seconds.

*Elevation.*—33 feet.

*Visibility.*—11 miles.

*Power.*—Red light 750 candles ; green light 450 candles.

*Structure.*—White square wooden structure.

2. Alteration in position and characteristics of rear light :

*New position.*—At a distance of about 2 cables southward from former position, and  $1\frac{3}{10}$  cables,  $13^{\circ}$  (N.  $18^{\circ}$  E. Mag.), from front light.

*New abridged description.*—2 Lts. F., Red (vertical), 100 & 67 ft., vis. 15 & 13 m.

*Details.*—The former fixed red light has been discontinued and is replaced by two lights having the undermentioned characteristics :—

*Character.*—Two fixed red lights, vertical.

*Elevation.*—100 feet and 67 feet.

*Visibility.*—15 miles and 13 miles.

*Power.*—750 candles.

*Structure.*—Square iron framework.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No 952, Owashi wan to Atsumi wan, &c.

„ 996, Kii suido to Tokyo.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2031, 2032.

Japan Pilot, 1914, page 169 ; Revised Supplement 1917.

*Authority.*—Tokyo Notice No. 4 of 1919. (H. 3138/19.)

RED SEA—EASTERN SHORE.

*Ras El Askar Approaches*—Beacons removed ; Buoys withdrawn.

*No. 213 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1023 of 1919), are republished :—

(a) Beacons removed :

(i) *Position.*—On the western side of Jinnabiyat island.

Jinnabiyat island, lat.  $19^{\circ} 46'$  N., long.  $40^{\circ} 35\frac{1}{4}'$  E.

*Description.*—Beacon with triangular topmark.

(ii) *Position.*—Near the northern end of El Mafrikat.

*Description.*—Beacon with triangular topmark.

(iii) *Position.*—On the southern side of Shab Namis.

*Description.*—Beacon with ball topmark.

(iv) *Position.*—On the western side of Shab Awda.

*Description.*—Beacon with ball topmark.

*Remarks.*—The above beacons have been removed and are to be expunged from the charts.

(b) Buoys withdrawn :

(i) *Position.*—On the north-eastern side of Bab el Bahhar.

*Description.*—A black and white vertically striped can buoy.



(ii) *Position*.—On the south-western side of Bab el Bahhar.

*Description*.—A red buoy with cage topmark.

(iii) *Position*.—On the northern end of Katat el Awwal.

*Description*.—A black and white chequered spherical buoy with topmark.

*Remarks*.—The above buoys have been withdrawn and are to be expunged from the charts.

*Charts affected*.—No. 14, Approaches to Ras el Askar.  
„ 8c, Red sea—sheet 3.

*Publication*.—Red Sea, &c., Pilot, 1909, page 340.

*Authority*.—Hydrographic Department. (H. 2129/19.)

#### JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO APPROACH.

*Motoyama Zaki*—Wrecks southward and south-westward of.

No. 214 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1025 of 1919), are republished:—

(i) *Position*.—At a distance of about 2 miles southward from Motoyama zaki.

Lat.  $33^{\circ} 53' 55''$  N., long.  $131^{\circ} 10' 19''$  E.

*Description*.—Sunken wreck of a sailing vessel with two masts and gaff showing 15 feet above water.

(ii) *Position*.—At a distance of about  $2\frac{1}{2}$  miles south-westward from Motoyama zaki.

Lat.  $33^{\circ} 53' 19''$  N., long.  $131^{\circ} 09' 25''$  E.

*Description*.—Sunken wreck of a collier with mast showing about 20 feet above water.

(iii) *Position*.—At a distance of about  $2\frac{1}{2}$  miles south-westward from Motoyama zaki.

Lat.  $33^{\circ} 53' 37''$  N., long.  $131^{\circ} 09' 17''$  E.

*Description*.—Sunken wreck of a sailing vessel with mast showing about 10 feet above water.

*Remarks*.—The above positions refer to chart No. 3225.

*Charts affected*.—No. 3225, Shimonoseki kaikyo to Marayama zaki.  
„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority*.—Tokyo Notice No. 379 of 1918. (H. 2880/19.)

#### CELEBES, EAST COAST—GULF OF TOMINI.

*Libiata Islet*—Rock south-westward of.

No. 215 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1034 of 1919), are republished:—

*Position*.—At a distance of about  $6\frac{1}{2}$  cables south-westward from Libiata islet.

Lat.  $0^{\circ} 28' 00''$  N. long.  $122^{\circ} 19' 45''$  E.

*Depth*.—About 3 feet.

*Note*.—The rock has a diameter of about 330 yards.

*Remarks*.—The symbol for a rock with a depth of less than 6 feet is to be inserted on the chart.

*Chart affected*.—No. 900, Tilamuta harbour to Tanjung Tuladenggi.

*Publication*.—Eastern Archipelago Pilot, Part II, 1913, page 523.

*Authority*.—Hague Notice No. 1397 of 1918. (H. 6237/18.)



## JAPAN, INLAND SEA—SHIMONOSEKI APPROACH.

*Ganryu Jima Lighthouse—Wreck north-eastward of.*

No. 216 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1035 of 1919), are republished:—

*Position.*—At a distance of 24 cables,  $60^{\circ}$  (N.  $65^{\circ}$  E. Mag.), from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56'$  E.

*Description.*—Sunken wreck of the SS. *Fusa Maru*, with mastheads visible above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 47 of 1919. (H. 3649/19.)

## JAPAN—INLAND SEA.

*Nagasaki no Seto—Amendments to Chart with regard to Shoals and Rocks.*

No. 217 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1039 of 1919), are republished:—

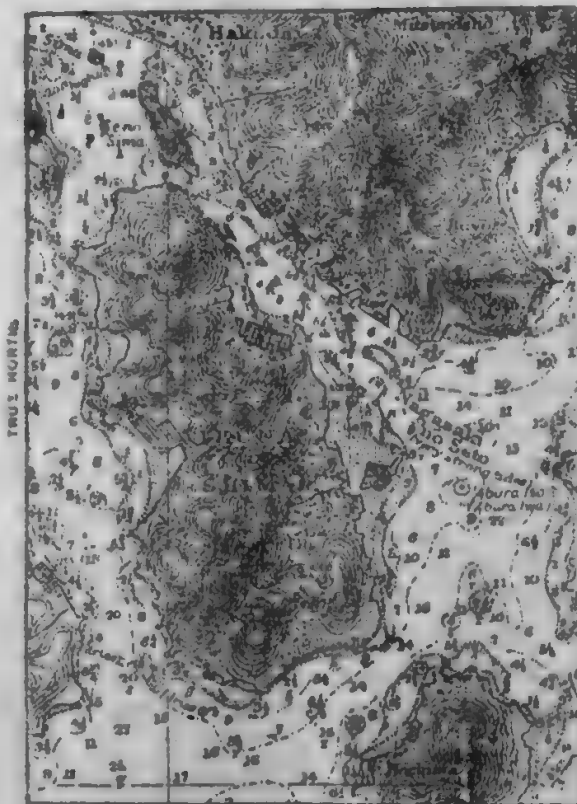
*Position.*—Hakodai, lat.  $34^{\circ} 17\frac{1}{2}'$  N., long.  $133^{\circ} 10'$  E.

*Details.*—Amendments to chart No. 3325 with regard to shoals and rocks in Nagasaki no Seto, embodying the latest information, are shown on the accompanying reproduction of a portion of that chart.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, page 337.

*Authority.*—Tokyo Notice No. 371 of 1918. (H. 2876/19.)



Reproduction of Portion of Chart No. 3325.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



**SOUTH PACIFIC OCEAN—BISMARCK ARCHIPELAGO, NEW BRITAIN.**

*Lolobau—Rocks reported westward of.*

**No. 218 (first publication).**—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1040 of 1919), are republished:—

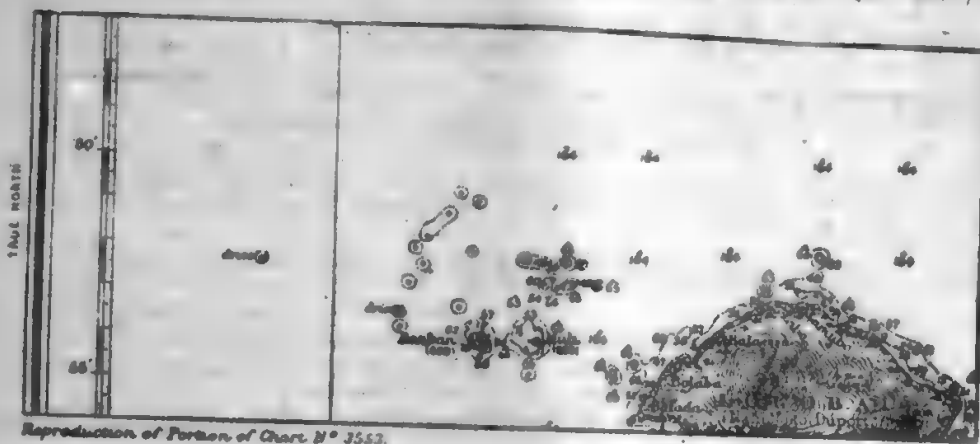
**Position.**—Banban, lat.  $4^{\circ} 54' S.$ , long.  $151^{\circ} 03\frac{1}{2}' E.$

**Details.**—The accompanying reproduction of a portion of chart No. 3553 shows the positions of several rocks reported to exist westward of Lolobau.

**Chart affected.**—No. 3553, Gazelle Peninsula and St. George's channel.

**Publication.**—Pacific Islands Pilot, Vol. I, 1908, page 377.

**Authority.**—U.S.A. Hyd. Office Notice No. 799 of 1919. (*H 3177/19.*)



Reproduction of Portion of Chart No. 3553.

**KOREA—EAST COAST.**

*Yonshu Kutsu—Amendments to Charts with regard to Rocks south-eastward of.*

**No. 219 (first publication).**—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1041 of 1919), are republished:—

**Former Notice.**—No. 407 of 1919. (*This office No. 108 of 1919.*)

**Position.**—5-fathom rock, lat.  $36^{\circ} 45' N.$ , long.  $129^{\circ} 44' E.$

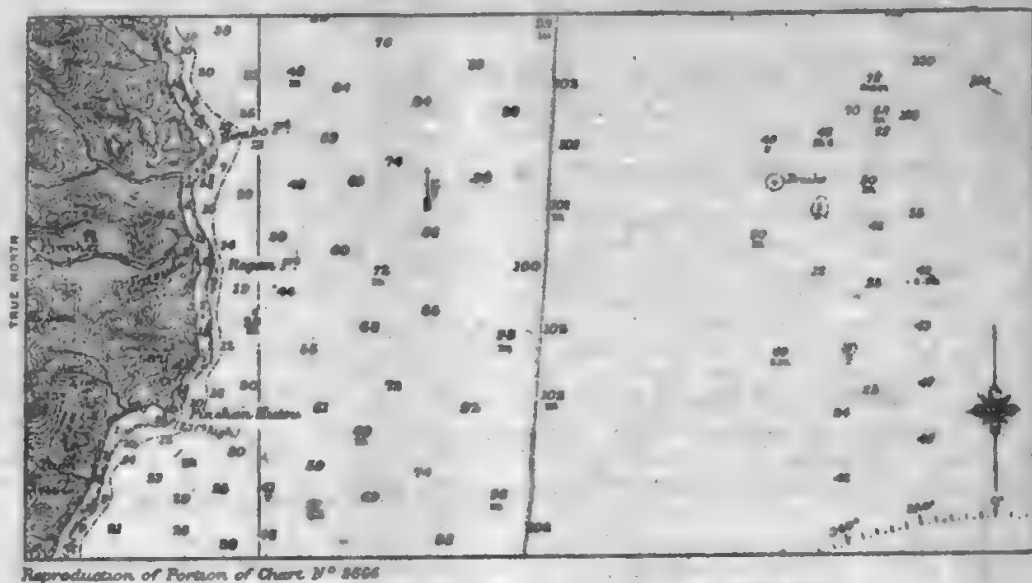
**Details.**—Amendments to the charts with regard to rocks south-eastward of Yonshu Kutsu, reported in the former Notice, together with depths in the vicinity, are shown on the accompanying reproduction of a portion of chart No. 3666. It will be observed that the rock with a depth of less than 6 feet, about one mile north-westward of the 5-fathom rock, has been re-inserted on the charts.

**Charts affected.**—No. 3666, Fusan harbour to Chukupen bay.  
 „ 3480, Shantung promontory to Nagasaki.  
 „ 2347, Honshū, Kiusiu and Shikoku, &c.  
 „ 781, Pacific ocean—north-west sheet.  
 „ 2683, Pacific ocean.  
 „ 2483, Atlantic and Indian oceans, &c.  
 „ 2937, Oceanic soundings, Indian and Western Pacific oceans.  
 „ 2459, North-West Pacific ocean, &c.

**Publication.**—E.C. of Korea, &c., Pilot, 1913, page 98; Revised Supplement (2), 1918.



*Authority.*—Tokyo Notice No. 273 of 1918. (H. 1678/19.)



#### AFRICA, EAST COAST.

##### *Kilwa Kisiwani Harbour—Buoy disappeared.*

*No. 220 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1050 of 1919), are republished :—

*Position.*—Formerly marking the eastern edge of the spit extending from Kisiwa Mbuga, and at a distance of about 5½ cables westward from the piers at Kikone.

Lat.  $8^{\circ} 56\frac{1}{2}'$  S., long.  $39^{\circ} 30\frac{1}{2}'$  E.

*Description.*—A red conical buoy.

*Remarks.*—The buoy has disappeared and is to be expunged from the charts.

*Chart affected.*—No. 661, Kilwa Kisiwani (with plan).

*Publication.*—Africa Pilot, Part III, 1915, page 339; Revised Supplement (2), 1919.

*Authority.*—H.M.S. *Hyacinth* (Remark Book, 1918). (H. 7601/18.)

#### INDIA, EAST COAST—GOPALPORE.

##### *Port Anchorage.*

*No. 221 (first publication).*—The following Notice to Mariners (No. 20 of 1919) issued by the Presidency Port Officer, Madras, is republished :—

“ Notice is hereby given that, as a temporary measure, a wooden structure consisting of a post, 30 feet high, surmounted with a triangular shaped board—all painted white—in place of the masonry boundary pillar referred to in this office Notice to Mariners No. 39 of 1917 has been put up in lat.  $19^{\circ} 15' 49''$  N., long.  $84^{\circ} 55' 03''$  E., which is approximately N.  $60^{\circ}$  E (T) 370 feet from the original site.”



ABABIA, NORTH-EAST COAST—GULF OF OMAN.

*Maskat Island—Light established.*

No. 222 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 50M. of 1919), are republished:—

*Position of Light.*—On a point, at a distance of about 2½ cables 132° (S. 50° E. Mag.) from Fisher's Rock.

Lat. 23° 37' 44" N.

Long. 58° 36' 11" E.

*Description of Light.*—Flashing white: with a period of about five seconds.

A further notice will be issued when particulars have been received.

*Variation.*—2° E.

*Chart affected.*—No. 2869, Maskat and Al Matrah.

*Publications.*—List of Lights, Part VI, 1919, page 33.

Indian List of Lights, 37th Issue, 1918, page 10.

Persian Gulf Pilot, 1915, page 43.

*Authority.*—Director, Royal Indian Marine, Bombay, dated 1st July 1919.

PERSIAN GULF—SHATT-AL-ARAB RIVER.

*Satan's (Devil's) Gap—Light buoy established in place of buoy.*

No. 223 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 51M. of 1919), are republished:—

*Position.*—At a distance of about 1½ cables 328° (N. 34° W. Mag.) from the western extreme of Dabba Island, in the position of the red conical buoy on the starboard hand side of the channel which it replaces.

Lat. 30° 26' 54" N.

Long. 48° 05' 30" E.

*Description.*—A light buoy painted green, with "W" in large letters, on its 3 sides, exhibiting an occulting red light.

*Chart affected.*—No. 1285, Mouth of the Euphrates.

*Publications.*—Indian List of Lights, 37th issue, 1918, page 12.

Persian Gulf Pilot, 1915, page 289.

*Authority.*—The Port Officer, Basrah, dated 8th June 1919.

INDIA—WEST COAST.

*Tellicherry Anchorage—Buoy off Talayi temporarily removed.*

No. 224 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 52M. of 1919), are republished:—

*Position.*—At a distance of about 1 mile and 7 cables 147° (S. 33° E. Mag.) from Tellicherry light-house.

Lat. 11° 43' 25" N.

Long. 75° 29' 20" E.

*Details.*—The small spherical buoy marking the pinnacle rock was removed on the 13th May 1919, and will be replaced in position about the 1st of October 1919.

*Variation.*—Nil.

*Charts affected.*—No. 1322, Anchorage on the West Coast of India.

" 747, India, West Coast, Sheet X.

*Publication.*—West Coast of India Pilot, 1909, page 142.

*Authority.*—The Presidency Port Officer, Madras, dated 22nd May 1919.



*The 10th July 1919.*

INDIA—WEST COAST.

*Goa, Mandovi River—Annual Extinction of Leading Lights.*

*No. 198 (second publication).—*The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 46-M. of 1919) are republished:—

*Subject.*—The Lights at Campal, Malim, Reis-Magos, Verem, and Marca-Iejo, will not be lighted from the 15th June to 15th August 1919, during the South-West Monsoon.

*Charts temporarily affected.*—No. 492, Aguada to St. George Island.  
 „ 740, Achra River to Cape Ramas.

*Authority.*—The Captain of the Ports of Portuguese India, dated 19th May 1919.

INDIA, WEST COAST—KATHIAWAR.

*Diu—Annual Extinction of Lights.*

*No. 199 (second publication).—*The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 47-M. of 1919) are republished:—

*Subject.*—The Lights of Forte de Mar, Couraca, Forte de Simbor and Forte de Barra at Brancavara will not be lighted from 15th June to 31st August 1919.

*Charts temporarily affected.*—No. 50, Diu Head to Goapnath Point.  
 „ 2736, Gulf of Kutch to Viziadrug.  
 „ 826, Karachi to Vengurla.

*Authority.*—The Captain of the Ports of Portuguese India, dated 19th May 1919.

INDIA—WEST COAST.

*Buoys between Bankot and Bhatkul removed for the South-West Monsoon.*

*No. 200 (second publication).—*The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 49-M. of 1919) are republished:—

*Details.*—The following mark and buoys were removed from their position, for the South-West Monsoon, on the dates noted against them:—

Bankot Bar Buoys (3 in number)	...	10th May 1919.
Ambalgarh Reef Buoy	...	16th „ „
Malvan Rock Buoy	...	18th „ „
Malvan Inner Harbour Buoys (2 in number)	...	23rd „ „
Malvan Red Light Boat	...	23rd „ „
Malvan Fort Harbour Buoy	...	24th „ „
Malvan Johnston Castle Rock Buoy	...	23rd „ „
Malvan Rajkot Fort Buoy	...	24th „ „
Chaldea Rock Buoy	...	17th „ „
Vengurla Bubra Rock Buoy	...	23rd „ „
Vengurla South Rock Buoy	...	25th „ „
Bhatkul Rock Buoy	...	16th „ „
Modeshwar Dart Rock Buoy	...	11th „ „

*Authority.*—The Deputy Commissioner of Salt and Excise, Southern Division, Dhárwar, dated 16th June 1919.



BAY OF BENGAL.

*Caution. Report of a large piece submerged wreckage.*

No. 201 (second publication).—

*Subject.*—The Master of the SS. "Garryvale" reports having passed a large piece submerged wreckage just awash in the following position:—

*Position.*—Lat.  $18^{\circ} 35'$  N., long.  $86^{\circ} 51'$  E.

*Caution.*—Mariners are hereby warned.

*Charts affected.*—No. 829, Cocanada to Bassein River.  
" 70, Bay of Bengal.

*Authority.*—Master of the SS. "Garryvale" telegram, dated 9th July 1919.

The 3rd July 1919.

EASTERN ARCHIPELAGO—NETHERLANDS EAST INDIES.

*Distress Signals with regard to Hydro-Aeroplanes.*

No. 189 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 948 of 1919), are republished:—

Netherlands hydro-aeroplanes in the East Indies when in distress will make the following signals by means of pyrotechnic lights:—

Signal.	Signification.
(a) A white pyrotechnic light	... Aerodrome to send a motor boat.
(b) A red " "	... Aeroplane requires immediate assistance.

All persons observing these signals should in case (a) communicate by telephone to the aerodrome, and in case (b) send a boat to assist the hydro-aeroplane with all possible dispatch.

*Publications.*—China Sea Pilot, Vol. I, 1916, page 30.  
China Sea Pilot, Vol. II, 1915, page 10.  
Eastern Archipelago Pilot, Part II, 1913, page 14.  
Eastern Archipelago Pilot, Part III, 1911, page 18.

*Authority.*—Hague Notice No. 920 of 1919. (H. 3620/19.)

JAPAN, INLAND SEA—KURO SHIMA SUIDO.

*Kurahashi Approach—Existence of Rock.*

No. 190 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 959 of 1919), are republished:—

*Position.*—At a distance of about 9 cables southward from Nagakushi zaki.

Lat.  $34^{\circ} 04' 30''$  N., long.  $132^{\circ} 30' 25''$  E., on chart No. 3469.

*Depth.*— $4\frac{1}{2}$  fathoms.

*Remarks.*—The anchorage symbol hitherto shown on the charts at a distance of about  $3\frac{1}{4}$  cables north-westward from the above rock is to be expunged.

*Charts affected.*—No. 3469, Hiroshima wan.  
" 2875, Naikai (Seto uchi) or Inland Sea.

*Publication.*—Japan Pilot, 1914, page 376.

*Authority.*—Tokyo Notice No. 373 of 1919. (H. 2876/19.)



## PORTUGUESE EAST AFRICA. •

*Mozambique—Caution with regard to Vessels Anchoring.*

*No. 191 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 960 of 1919), are republished :—

*Position.*—Mozambique island, lat.  $15^{\circ} 02\frac{1}{2}'$  S., long.  $40^{\circ} 44\frac{1}{2}'$  E.

*Details.*—The following cautionary note is to be placed on the charts :—

*"Vessels are cautioned against anchoring in the channels east of Mozambique island, as there is great danger of breaking the telegraph cables."*

*Remarks.*—The anchorage symbols in the above vicinity are to be expunged from the charts.

*Charts affected.*—No. 652, Mozambique harbour.

„ 653. Ports of Conducia, Mozambique and Mokambo.

*Publication.*—Africa Pilot, Part III, 1915, page 282.

*Authority.*—Senior Naval Officer, East Coast of Africa. (H. 2988/19.)

## INDIA—WEST COAST.

*Ratnagiri Light—Arc of Illumination.*

*No. 192 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 43M. of 1919), are republished :—

*Position.*—Lat.  $16^{\circ} 59'$  N.

Long.  $73^{\circ} 16'$  E.

*Arc of Illumination.*—Visible from  $357^{\circ}$  through north to  $157^{\circ}$ .

*Charts affected.*—No. 56, Ratnagiri Bay.

„ 739, Boria Pagoda to Malvan.

„ 2736, Gulf of Kutch to Viziadrug.

„ 826, Karachi to Vengurla.

*Publications.*—List of Lights, Part VI, 1919, No. 411.

Indian List of Lights, 37th issue, 1918, No. 112.,

West Coast of India Pilot, 1909, page 193.

*Authority.*—The Director, Royal Indian Marine, Bombay, dated 10th June 1919.

## INDIA—WEST COAST.

*Bhatkal Light—Arc of Illumination.*

*No. 193 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 44M. of 1919) are republished :—

*Position.*—Lat.  $13^{\circ} 58'$  N.

Long.  $74^{\circ} 31'$  E.

*Arc of Illumination.*—Visible from  $301^{\circ}$  through north to  $166^{\circ}$ .

*Note.*—The light is obscured by Hog Island between the bearings of  $129^{\circ}$  to  $132^{\circ}$ .

*Charts affected.*—No. 744, Cape Ramas to Alvagndda.

„ 2736, Gulf of Kutch to Viziadrug.

„ 826, Karachi to Vengurla.

*Publications.*—List of Lights, Part VI, 1919, No. 442.

Indian List of Lights, 37th issue, 1918, No. 135.

West Coast of India Pilot, 1909, page 156.

*Authority.*—The Director, Royal Indian Marine, Bombay, dated 10th June 1919.



WEST COAST OF INDIA.


*Bombay Harbour—Alteration in Pilot Station.*

No. 194 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 45M. of 1919), are republished :—

*Position.*—At a distance of about 8 cables 135° (S. 45° E. Mag.) from Sunk Rock Lighthouse—

Lat. 18° 52' 45" N.

Long. 72° 50' 35" E.

*Note.*—The pecked lines, wording, , and note shewing the usual position of the Pilot schooner; also cruising ground during the S. W. Monsoon is to be expunged from Admiralty Chart No. 2621.

*Variation.*—Nil.

*Chart affected.*—No. 2621, Bombay Harbour.

*Publication affected.*—West Coast of India Pilot, 1909, page 223.

*Authority.*—The Port Officer, Bombay, dated 1st May 1919.

AUSTRALIA, EAST COAST—INNER BARRIER ROUTE.

*Meaburn Rock—Buoy to be re-established.*

No. 195 (third publication).—The following Notice to Mariners (No. 3 of 1919), issued by the Comptroller-General of Customs, Melbourne, is republished :—

“ With reference to Queensland Marine Department's Notice No. 11 of 1918, Mariners and others are hereby notified that the Meaburn Rock Buoy will be re-established on or about 15th July 1919.

*Position (approximate).*—The Buoy will be moored in 8 fathoms of water on the south-east side of Meaburn Rock, at a distance of 6½ miles, 350° (N. 17° W. Mag.) from the North Barnard Light-house, and 2½ miles, 35° (N. 28° E. Mag.) from Hull Point.  
Lat. 17° 34' S.; Long. 146° 10' E. on Chart No. 2350.

*Description.*—A red cask buoy.

*Note.*—No further notice will be given.

*Charts affected.*—No. 2350, Double Point to Cape Grafton.

„ 2763, Coral Sea and Great Barrier Reefs, sheet I.

„ 2759a, Australia, northern portion.

„ 780, Pacific Ocean, South-west sheet.

*Publications.*—Australia Pilot, Vol. IV, 1917, page 190.

Sailing Directions and other information for the Ports and Harbours of Queensland, 1919, pages 44 and 157.”

INDIA, WEST COAST—ALLEPPEY.

*Nircum—Smooth water anchorage off.*

No. 196 (third publication).—The Principal Port Officer, Alleppey, has given Notice, dated the 5th June 1919, that smooth water will be found 1 mile south of Nircum and 7 miles south of Alleppey. A temporary flagstaff will be erected and an occasional red light shown when steamers are expected.



BAY OF BENGAL—BURMA COAST.

*East of Baragua flats light-vessel—Existence of a wreck.*

*No. 197 (third publication).—*

*Subject.*—The Master of the S. S. "Martaban" reports having sighted what appeared to be a wreck 6° due east of Baragua flats light-vessel.

*Position.*—Lat. 15° 29' N., long. 95° 17' E.

*Remarks.*—Only about 3 feet of the masts were visible above water, and the wreck was apparently aground.

*Caution.*—Mariners are hereby warned.

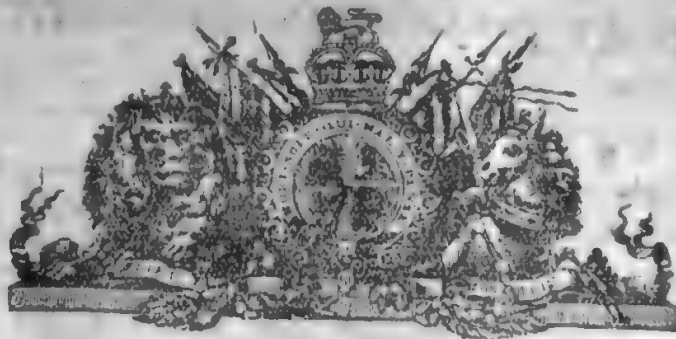
*Charts affected.*—No. 823, Koronge island to White Point.  
" 830, Bassein river to Pulo Penang.  
" 70, Bay of Bengal.

*Authority.*—Principal Port Officer, Burma, Rangoon, Notice dated 25th June 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, JULY 30. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

The following Notices are published for general information.

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*

CALCUTTA, the 21st July 1919.

#### BORNEO, EAST COAST—TARAKAN ISLAND.

*Linkas and Approaches—Light-Buoys established ; Amendments to Charts.*

*No. 225 (first publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1064 of 1919), are republished :—

*Former Notice.—*No. 752 of 1919. (*This Office No. 157 of 1919.*)

*Position.—*Linkas, lat.  $3^{\circ} 17\frac{1}{2}'$  N., long.  $117^{\circ} 35\frac{1}{2}'$  E.

*Details.—*The accompanying reproduction of a portion of chart No. 3577 shows the following :—

- (a) The position and description of three light-buoys recently established off Linkas.
- (b) Amendments to the chart with regard to shoals.
- (c) Amended position of Linkas oil jetty.

*Charts affected.—*No. 3577, Sesajap and Bulungan rivers.

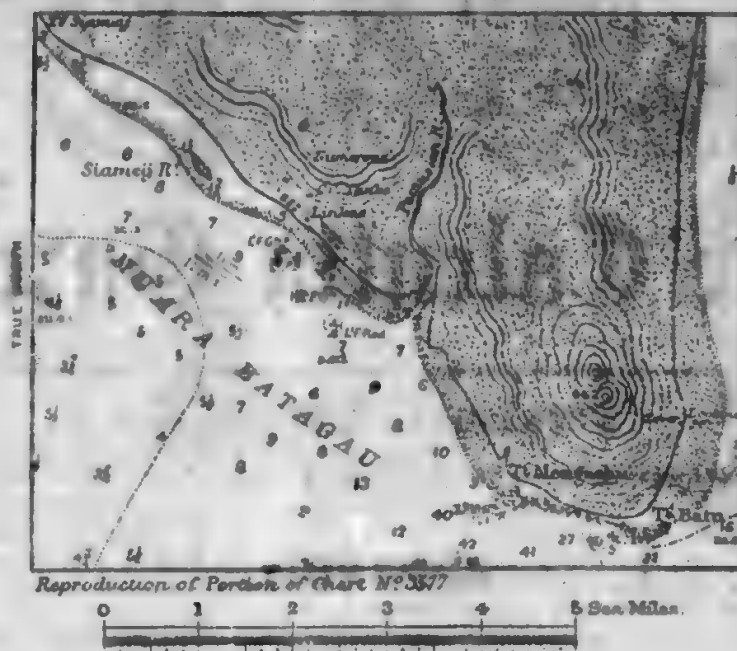
„ 2636, North part of the Strait of Makassar.

„ 2576, Sulu archipelago and north-east coast of Borneo.

*Publication.—*Eastern Archipelago Pilot, Part II, 1913, pages 440, 441, 443 ; Revised Supplement (2), 1918.



*Authority.*—Hague Notice No. 956 of 1919. (H. 3629/19.)



#### JAVA, NORTH COAST—BATAVIA ROADS.

*Tanjong Priok Approach—Light-Buoy established in place of Buoy.*

*No. 226 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1066 of 1919), are republished :—

*Position.*—At a distance of  $6\frac{1}{2}$  cables,  $60^{\circ}$  (N.  $60^{\circ}$  E. Mag.), from the light on the Eastern breakwater at Tanjong Priok harbour, in the position formerly occupied by the red can buoy which it replaces.

Lat.  $6^{\circ} 04\frac{1}{2}'$  S., long.  $106^{\circ} 53\frac{1}{2}'$  E.

*Description.*—A light-buoy painted red, exhibiting a fixed green light.

*Variation.*—Nil.

*Chart affected.*—No. 933, Batavia roads.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 91; Supplement, 1918.

*Authority.*—Hague Notice No. 919 of 1919. (H. 3619/19.)

#### JAPAN—SHIMONOSEKI KO.

*Koshiki Se—Non-Existence of Shoal north-eastward of.*

*No. 227 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1068 of 1919), are republished :—

*Position.*—At a distance of about 4 cables north-eastward of Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56'$  E.



*Details.*—The shoal about half a cable in extent, shown on the chart in the above vicinity as having depths of from 2 to 2½ fathoms, does not exist and is to be erased; the under-mentioned depths are to be substituted:—

Distance and bearing from Ganryū jima lighthouse.	Depth.
(a) 4 cables, 24° (N. 29° E. Mag.)	... 5½ fathoms.
(b) 4 " 21° (N. 26° E. Mag.)	... 5½ "

*Variation.*—5° W.

*Charts affected.*—No. 8114, Moji and Shimonoseki ko.  
" 1578, Shimonoseki kaikyo.  
" 532, Approach to Shimonoseki kaikyo.

*Publication.*—Japan Pilot, 1914, page 570.

*Authority.*—Japanese Government Chart. (H. 3802/19.)

#### JAPAN—INLAND SEA, SUWO NADA.

*Ube No Misaki—Wreck southward of.*

*No. 228 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1071 of 1919), are republished:—

*Position (approximate).*—At a distance of about 5 miles southward of Ube no misaki.

Lat. 33° 50' 45" N., long. 131° 16' 33" E.

*Description.*—Sunken wreck of the sailing vessel *Daini Nunobiki Maru*.

*Remarks.*—The vessel is marked with a pole displaying flag "B" International Code.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.  
" 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 53 of 1919. (H. 3847/19.)

#### JAPAN—INLAND SEA.

*Mihara Seto and Onomichi Seto Approaches—Existence of Rocks.*

*No. 229 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1072 of 1919), are republished:—

Position.		Depth.	Name.
Lat.	Long.		
(a) 34° 20' 39" N., 133° 11' 04" E.	-	5½ fathoms	Akane.
(b) 34° 20' 57" N., 133° 10' 40" E.	-	6 "	Matsui Dashi.
(c) 34° 21' 38" N., 133° 08' 39" E.	-	3 "	Hikozaki no iso.
(d) 34° 21' 55" N., 133° 08' 50" E.	-	2 "	Shinakano iso.
(e) 34° 24' 04" N., 133° 11' 15" E.	-	1 "	Kanazaki no ishi.
(f) 34° 23' 33" N., 133° 14' 00" E.	-	2½ "	Takomadowa.
(g) 34° 22' 02" N., 133° 13' 49" E.	-	2½ "	Okino Takadowa.
(h) 34° 11' 06" N., 133° 00' 40" E.	-	4 "	Kabura Dashi.

*Note.*—With reference to rock (g), the depth of 2½ fathoms is to be substituted for 3½ fathoms hitherto shown on the charts.



*Charts affected.*—No. 3325, Channels between Neko seto and Mekari seto.

„ 83, Gogo shima to Miyo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, pages 333, 341, 342, 350.

*Authority.*—Tokyo Notices Nos. 35 to 38 of 1919. (H. 3640/19.)

#### NEW GUINEA, NORTH COAST.

*Wandamen Bay Approach—Increased Depth on Shoal.*

*No. 230 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1075 of 1919), are republished :—

*Position.*—At a distance of about 6½ miles north-eastward from the northern extremity of Ron island.

Lat. 2° 13' S., long. 134° 28½' E.

*Details.*—A least depth of 6 fathoms has been found to exist on the reef situated in the above position, instead of a depth of 3 fathoms as hitherto shown on the charts.

*Charts affected.*—No. 942b, Eastern Archipelago—sheet IV.

„ 2759a, Australia—northern portion.

*Publication.*—Pacific Islands Pilot, Vol. I, 1908, page 236.

*Authority.*—Hague Notice No. 1086 of 1919. (H. 3909/19.)

#### INDIA, WEST COAST.

*Kannanur Anchorage—Buoy permanently laid.*

*No. 231 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the 'Royal Indian Marine, Bombay, in Notice to Mariners (No. 53M. of 1919), are republished :—

Former Notice No. 29M. of 1919. (This office No. 131 of 1919.)

*Details.*—The small dome-shaped red buoy referred to in the above Notice will not be withdrawn annually for the South-West Monsoon.

*Charts affected.*—No. 1322, Anchorage on the West Coast of India.

„ 747, West Coast of India, Sheet X.

*Authority.*—The Presidency Port Officer, Madras, dated 22nd May 1919.

#### AUSTRALIA, SOUTH COAST, BASS STRAIT.

*Point Lonsdale Light—Intended alteration in character.*

*No. 232 (first publication).*—

*Subject.*—The Occulting Light with White and Red Sectors on Point Lonsdale will be replaced by a Group Flashing Light with White and Red Sectors, on or about 15th September 1919.

*Position.*—On the West side of entrance to Port Phillip.

Lat. 38° 17½' S., long. 144° 36½' E. on Chart No. 1171.



*Details.*—The Occulting Light every fifteen seconds, with White and Red Sectors, will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing Light with White and Red Sectors, showing two flashes in quick succession every six seconds, thus:—

<u>Flash</u>	<u>Eclipse</u>	<u>Flash</u>	<u>Eclipse</u>
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$\frac{1}{4}$ secs.

*Power.*—White, 4,000 candles. Red, 1,500 candles.

*Remarks.*—The light will be unwatched, but the Signal Station will be continued as heretofore. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 2747, Entrance to Port Phillip.

„ 1171, Port Phillip.

„ 1695b, Bass Strait, Western sheet.

„ 3169, Port Phillip to Gabo Island.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—Last of Lights and Time Signals. Part VI, 1919. No. 2418.

Australia Pilot, Vol II, 1918, page 87.

*Authority.*—Melbourne Notice No. 4 of 1919.

#### AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Eagle Nest Point (Split Point)*—Intended alteration in character—  
*Auxiliary White Light to be discontinued.*

*No. 233 (first publication).*—

*Subject.*—The Fixed Red Light with White Sectors on Eagle Nest Point (Split Point) will be replaced by a Group Flashing White Light with Red Sectors; and further, that the Auxiliary White Light will be discontinued, on or about 1st October 1919.

*Position.*—Lat. 38° 28' S., long. 144° 06½' E. on Chart No. 1695b.

*Details.*—The Fixed Red Light with White Sectors will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing White Light with Red Sectors, showing four flashes in quick succession every twelve seconds, thus:—

<u>Flash</u>	<u>Eclipse</u>	<u>Flash</u>	<u>Eclipse</u>	<u>Flash</u>	<u>Eclipse</u>	<u>Flash</u>	<u>Eclipse</u>
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$\frac{7}{8}$ secs.

*Sectors.*—Red from 233° (S. 45° W. Mag.) to 249° (S. 61° W. Mag.); White from 249° (S. 61° W. Mag.) to 39° (N. 31° E. Mag.); Red from 39° (N. 31° E. Mag.) to 48° (N. 40° E. Mag.); obscured elsewhere.

*Visibility.*—White, 20 miles. Red, 9 miles.

*Power.*—White, 7,000 candles. Red, 3,000 candles.

*Auxiliary Light.*—The Auxiliary Fixed White Light will be discontinued, on or about 1st October 1919.



*Remarks.*—The light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1695b, Bass Strait. Western sheet.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2413.

Australia Pilot, Vol. II, 1918, page 82.

*Authority.*—Melbourne Notice No. 5 of 1919.

The 14th July 1919.

#### KOREA, EAST COAST.

*Kochin Kutchii*—Obstruction reported north-eastward of.

*No. 202 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 978 of 1919), are republished:—

*Position (approximate).*—At a distance of about 1½ miles north-eastward from Kochin Kutchii.

Lat. 37° 28' 35" N., long. 129° 12' 41" E.

*Details.*—A vessel drawing 18½ feet reports having touched a submerged obstruction in the above position.

*Remarks.*—The position is to be encircled by a danger line and marked "*Obstruction repd. (1919) (posn. approx.)*."

*Chart affected.*—No. 882, Chukupen bay to Suon Kutchi.

*Publication.*—E.C. Korea, &c., Pilot, 1913, page 98.

*Authority.*—Tokyo Notice No. 17 of 1919. (*H. 3402/19.*)

#### JAPAN—INLAND SEA, IYO NADA.

*Gogo Sima Anchorage*—Wreck removed.

*No. 203 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 979 of 1919), are republished:—

*Former Notice* No. 678 of 1919. (*This Office No. 141 of 1919.*)

*Position.*—At a distance of about 5¼ cables eastward from Kimisaki Iso.

Lat. 33° 54½' N., long. 132° 42' E.

*Description.*—The wreck of the SS. *Daishi Aioi Maru*, formerly situated in the above position, has been salvaged and the wreck symbol is to be expunged from the charts.

*Charts affected.*—No. 694, Plan of Gogo sima and Horiyé anchorages.

„ 83, Gogo shima to Miyo shima.

„ 3154, Ominasé to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 33 of 1919. (*H. 3463/19.*)



## SOUTH AUSTRALIA—SPENCER'S GULF, EAST COAST.

*Wallaroo—Alteration in Character of Light.*

No. 204 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 981 of 1919), are republished:—

*Position.*—On the outer end of the jetty.

Lat.  $33^{\circ} 55\frac{1}{2}'$  S., long.  $137^{\circ} 37'$  E.

*New abridged description.*—Lt. Fl., W.R., ev. 2 sec. 30 ft., vis. 7 m.

*Alteration.*—The character of the light has been altered from fixed red and green to flashing every two seconds, with white and red sectors, thus:—

Flash,	eclipse.
$\frac{8}{10}$ secs.	$\frac{2}{10}$ secs.

*Remarks.*—The red sectors remain unaltered and the white light shows over the former limits of the green sector.

*Charts affected.*—No. 402, Tickera point to Cape Elizabeth.

„ 2389, St. Vincent and Spencer gulfs.

*Publication.*—List of Lights, Part VI, 1919, No. 2325.

*Authority.*—Adelaide Harbour Board Notice No. 6 of 1918. (H. 3131/19.)

## JAPAN, INLAND SEA—HIUCHI NADA.

*Okino Se—Decreased Depth.*

No. 205 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 982 of 1919), are republished:—

*Position.*—Lat.  $34^{\circ} 06\frac{1}{2}'$  N., long.  $133^{\circ} 06'$  E.

*Details.*—The depth over this rock is  $3\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms as hitherto shown on the charts.

*Charts affected.*—No. 83, Gogo shima to Miyo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, page 328.

*Authority.*—Tokyo Notice No. 32 of 1919. (H. 3462/19.)

## JAPAN—HONSHU, NORTH-WEST COAST.

*Wakasa Bay—Fishing Area.*

No. 206 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 985 of 1919), are republished:—

*Details.*—Fishing is carried out within the undermentioned area from July to October, annually:—

The area is bounded by lines joining the following positions:—

(a) Lat.  $36^{\circ} 03' 45''$  N., long.  $135^{\circ} 35' 45''$  E.

(b) Lat.  $35^{\circ} 57' 05''$  N., long.  $135^{\circ} 36' 00''$  E.

(c) Lat.  $35^{\circ} 51' 40''$  N., long.  $135^{\circ} 24' 15''$  E.

(d) Lat.  $36^{\circ} 03' 40''$  N., long.  $135^{\circ} 27' 15''$  E.



*Note.*—The above area is to be indicated on the charts in pecked lines and marked "*From 1st July to 30th October, annually, vessels should navigate with caution within this area, buoys being laid out for fishing purposes (1918.)*"

*Charts affected.*—No. 2174, Amarube zaki to Ando zaki, &c.  
 „ 1495, Aburatani bay to Ando zaki.

*Publication.*—Japan Pilot, 1914, page 615.

*Authority.*—Tokyo Notice No. 369 of 1918. (*H. 2874/19*)

#### JAPAN, INLAND SEA—AKI.

##### *Hiroshima Approach—Existence of Wreck.*

*No. 207 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 992 of 1919), are republished :—

*Position.*—At a distance of about 17 cables eastward from Ko Nasami jima lighthouse.

Lat.  $34^{\circ} 17' 55''$  N., long.  $132^{\circ} 23' 20''$  E., on chart No. 3469.

*Description.*—A sunken wreck, with mast visible above water.

*Charts affected.*—No. 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 16 of 1919. (*H. 3401/19.*)

#### JAPAN, INLAND SEA—HONSHŪ.

##### (1) *Uchi No Umi Approaches—Existence of Rocks.*

###### (2) *Koguro Jima—Rock south-eastward of.*

*No. 208 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1001 of 1919), are republished :—

##### (1) *Uchi No Umi Approaches.*

(i) *Position.*—At a distance of about  $2\frac{1}{2}$  cables southward from Kashiwa shima summit.

Lat.  $34^{\circ} 15' 47''$  N., long.  $132^{\circ} 46' 00''$  E.

*Depth.*— $1\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as "Kobushi so ba."

*Note.*—This rock is the outer extremity of a reef which extends to the southward from the south-eastern end of Kashiwa shima.

(ii) *Position.*—At a distance of about  $2\frac{1}{2}$  cables north-westward from the western extreme of Oshiba shima.

Lat.  $34^{\circ} 16' 32''$  N., long.  $132^{\circ} 46' 50''$  E.

*Depth.*—2 fathoms.

*Remarks.*—This rock is known as "Kajikake iwa."

(iii) *Position.*—At a distance of about  $4\frac{1}{2}$  cables eastward from Oshiba shima 372-foot summit.

Lat.  $34^{\circ} 16' 35''$  N., long.  $132^{\circ} 48' 32''$  E.

*Depth.*—Three-quarters of a fathom.



*Remarks.*—This rock, which is to be shown on the charts by the symbol for a rock with a depth of less than 6 feet, is known as "Kami no su."

*Note.*—Foul ground extends to the south-westward of this rock as far as the south-eastern side of Oshiba shima.

**(2) Koguro Jima.**

*Position.*—At a distance of about 3 cables south-eastward from Koguro jima 347-foot summit.  
Lat.  $34^{\circ} 09' 00''$  N., long.  $132^{\circ} 39' 04''$  E.

*Depth.*—4 fathoms.

*Remarks.*—This rock is known as "Otono no ishi."

*Note.*—The above positions refer to chart No. 3325.

*Charts affected.*—No. 3325, Channels between Neko seto and Mekari seto.

" 83, Gogo shima to Miyo shima.

" 3469, Hiroshima wan.

" 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, page 360.

*Authority.*—Tokyo Notice No. 19 of 1919. (H. 3404/19.)

**BORNEO—NORTH-EAST COAST.**

*Tambisan Island—Rock reported north-westward of.*

*No. 209 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1002 of 1919), are republished:—

*Position (approximate).*—At a distance of about 6 miles north westward from Tambisan island summit.  
Lat.  $5^{\circ} 32' 30''$  N., long.  $119^{\circ} 04' 40''$  E., on chart No. 1868.

*Depth.*—About 2 feet.

*Note.*—The rock is marked by discoloured water.

*Remarks.*—The symbol for a rock with a depth of less than 6 feet is to be inserted on the charts in the above position with the note "Reported (1918) (posn. approx.)."

*Charts affected.*—No. 1868, Taganak to Tawi Tawi.

" 2576, Sulu archipelago, and north-east coast of Borneo.

" 2660b, China sea, southern portion—eastern sheet.

*Publication.*—Eastern Archipelago Pilot, Part I, 1911, page 176.

*Authority.*—Tokyo Notice No. 12 of 1919. (H. 3400/19.)

**JAPAN, INLAND SEA—IYO NADA.**

*Sago No Seto—Existence of Wreck, marked by Buoy and Light.*

*No. 210 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1004 of 1919), are republished:—

*Position (approximate).*—At a distance of about half a mile southward from Sago shima 370-foot summit.  
Lat.  $33^{\circ} 51' 45''$  N., long.  $132^{\circ} 03' 45''$  E.

*Description.*—Sunken wreck of the sailing vessel *Dempō Maru*.

*Remarks.*—The wreck is marked by a buoy and flag and at night by a light.

*Note.*—A note "Marked by buoy and Lt. (posn. approx.)" is to be inserted on the charts against this wreck.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

" 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 376 of 1918. (H. 2878/19.)



## JAPAN, INLAND SEA—HONSHŪ.

*Hakata Seto and Approaches—Existence of Rocks.*

*No. 211 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1016 of 1919), are republished:—

- (i) *Position.*—At a distance of about  $3\frac{1}{2}$  cables north-westward from Stone beacon.

Lat.  $34^{\circ} 15' 49''$  N., long.  $133^{\circ} 03' 03''$  E.

*Depth.*— $6\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as “Chitori ishi.”

- (ii) *Position.*—At a distance of about  $2\frac{1}{2}$  cables north-westward from the northern extremity of Hakata jima.

Lat.  $34^{\circ} 14' 39''$  N., long.  $133^{\circ} 05' 55''$  E.

*Depth.*— $5\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as “Kanzaki dashi.”

- (iii) *Position.*—At a distance of about 4 cables north-westward from Akone shima 433-foot summit.

Lat.  $34^{\circ} 14' 36''$  N., long.  $133^{\circ} 08' 49''$  E.

*Depth.*— $2\frac{1}{2}$  fathoms.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, page 353.

*Authority.*—Tokyo Notice No. 20 of 1919. (H. 3405/19.)

## JAPAN—HONSHŪ, SOUTH COAST.

*Nagoya Ko—Alteration in Dredged Channel Leading Lights.*

*No. 212 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1021 of 1919), are republished:—

1. Alteration in characteristics of front light :

*Position.*—Lat.  $35^{\circ} 05' 18''$  N., long.  $136^{\circ} 52' 32''$  E.

*New abridged description.*—Lt. Alt., Red Gn. ev. 10 sec., 33 ft. vis. 11 m.

*Details.*—The alternating white and red light has been replaced by a light having the undermentioned characteristics:—

*Character.*—An alternating red and green light every ten seconds.

*Elevation.*—33 feet.

*Visibility.*—11 miles.

*Power.*—Red light 750 candles ; green light 450 candles.

*Structure.*—White square wooden structure.

2. Alteration in position and characteristics of rear light :

*New position.*—At a distance of about 2 cables southward from former position, and  $1\frac{3}{10}$  cables,  $13^{\circ}$  (N.  $18^{\circ}$  E. Mag.), from front light.

*New abridged description.*—2 Lts. F., Red (vertical), 100 & 67 ft., vis. 15 & 13 m.



*Details.*—The former fixed red light has been discontinued and is replaced by two lights having the under-mentioned characteristics:—

*Character.*—Two fixed red lights, vertical.

*Elevation.*—100 feet and 67 feet.

*Visibility.*—15 miles and 13 miles.

*Power.*—750 candles.

*Structure.*—Square iron framework.

*Variation.*—5° W.

*Charts affected.*—No. 952, Owashi wan to Atsumi, wan, &c.

„ 996, Kii suido to Tokyo.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2031, 2032.

Japan Pilot, 1914, page 169; Revised Supplement 1917.

*Authority.*—Tokyo Notice No. 4 of 1919. (H. 3138/19.)

#### RED SEA—EASTERN SHORE.

*Ras El Askar Approaches*—Beacons removed; Buoys withdrawn.

No. 213 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1023 of 1919), are republished:—

##### (a) Beacons removed:

(i) *Position.*—On the western side of Jinnabiyat island.  
Jinnabiyat island, lat. 19° 46' N., long. 40° 35½' E.

*Description.*—Beacon with triangular topmark.

(ii) *Position.*—Near the northern end of El Mafrikat.

*Description.*—Beacon with triangular topmark.

(iii) *Position.*—On the southern side of Shab Namis.

*Description.*—Beacon with ball topmark.

(iv) *Position.*—On the western side of Shab Awda.

*Description.*—Beacon with ball topmark.

*Remarks.*—The above beacons have been removed and are to be expunged from the charts.

##### (b) Buoys withdrawn:

(i) *Position.*—On the north-eastern side of Bab el Bahhar.

*Description.*—A black and white vertically striped can buoy.

(ii) *Position.*—On the south-western side of Bab el Bahhar.

*Description.*—A red buoy with cage topmark.

(iii) *Position.*—On the northern end of Katat el Awwal.

*Description.*—A black and white chequered spherical buoy with topmark.

*Remarks.*—The above buoys have been withdrawn and are to be expunged from the charts.

*Charts affected.*—No. 14, Approaches to Ras el Askar.

„ 8c, Red sea—sheet 3.

*Publication.*—Red Sea, &c., Pilot, 1909, page 340.

*Authority.*—Hydrographic Department. (H. 2129/19.)



## JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO APPROACH.

*Motoyama Zaki—Wrecks southward and south-westward of.*

*No. 214 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1025 of 1919), are republished:—

(i) *Position.*—At a distance of about 2 miles southward from Motoyama zaki.

Lat.  $33^{\circ} 53' 55''$  N., long.  $131^{\circ} 10' 19''$  E.

*Description.*—Sunken wreck of a sailing vessel with two masts and gaff showing 15 feet above water.

(ii) *Position.*—At a distance of about  $2\frac{1}{2}$  miles south-westward from Motoyama zaki.

Lat.  $33^{\circ} 53' 19''$  N., long.  $131^{\circ} 09' 25''$  E.

*Description.*—Sunken wreck of a collier with mast showing about 20 feet above water.

(iii) *Position.*—At a distance of about  $2\frac{1}{2}$  miles south-westward from Motoyama zaki.

Lat.  $33^{\circ} 53' 37''$  N., long.  $131^{\circ} 09' 17''$  E.

*Description.*—Sunken wreck of a sailing vessel with mast showing about 10 feet above water.

*Remarks.*—The above positions refer to chart No. 3225.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Marayama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 379 of 1918. (H. 2880/19.)

## CELEBES, EAST COAST—GULF OF TOMINI.

*Libiata Islet—Rock south-westward of.*

*No. 215 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1034 of 1919), are republished:—

*Position.*—At a distance of about  $6\frac{1}{2}$  cables south-westward from Libiata islet.

Lat.  $0^{\circ} 28' 00''$  N. long.  $122^{\circ} 19' 45''$  E.

*Depth.*—About 3 feet.

*Note.*—The rock has a diameter of about 330 yards.

*Remarks.*—The symbol for a rock with a depth of less than 6 feet is to be inserted on the chart.

*Chart affected.*—No. 900, Tilamuta harbour to Tanjong Tuladenggi.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 523.

*Authority.*—Hague Notice No. 1397 of 1918. (H. 6237/18.)

## JAPAN, INLAND SEA—SHIMONOSEKI APPROACH.

*Ganryu Jima Lighthouse—Wreck north-eastward of.*

*No. 216 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1035 of 1919), are republished:—

*Position.*—At a distance of  $2\frac{1}{2}$  cables,  $60^{\circ}$  (N.  $65^{\circ}$  E. Mag.), from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56'$  E.

*Description.*—Sunken wreck of the SS. *Fusa Maru*, with mastheads visible above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 47 of 1919. (H. 3649/19.)



JAPAN—INLAND SEA.

*Nagasaki no Seto—Amendments to Chart with regard to Shoals and Rocks.*

*No. 217 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1039 of 1919), are republished:—

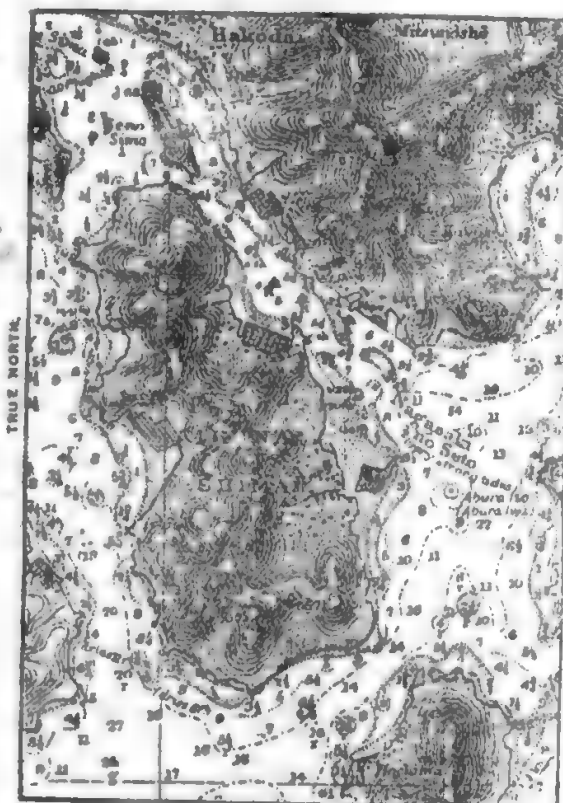
*Position.*—Hakodai, lat.  $34^{\circ}17\frac{1}{2}'$  N., long.  $133^{\circ}10'$  E.

*Details.*—Amendments to chart No. 3325 with regard to shoals and rocks in Nagasaki no Seto, embodying the latest information, are shown on the accompanying reproduction of a portion of that chart.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto

*Publication.*—Japan Pilot, 1914, page 337.

*Authority.*—Tokyo Notice No. 371 of 1918. (H. 2875/19.)



Reproduction of Portion of Chart No. 3325.

Sea Mile

SOUTH PACIFIC OCEAN—BISMARCK ARCHIPELAGO, NEW BRITAIN.

*Lolobau—Rocks reported westward of.*

*No. 218 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1040 of 1919), are republished:—

*Position.*—Banban, lat.  $4^{\circ}54'$  S., long.  $151^{\circ}03\frac{1}{2}'$  E.

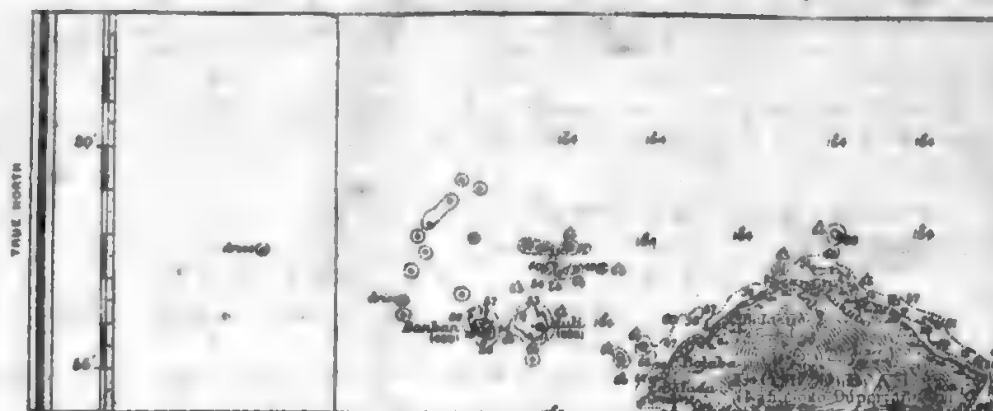
*Details.*—The accompanying reproduction of a portion of chart No. 3553 shows the positions of several rocks reported to exist westward of Lolobau.

*Chart affected.*—No. 3553, Gazelle Peninsula and St. George's channel.

*Publication.*—Pacific Islands Pilot, Vol. I, 1908, page 377.



*Authority.*—U.S.A. Hyd. Office Notice No. 709 of 1919. (H 3177/19.)



Reproduction of Portion of Chart N° 3553.

#### KOREA—EAST COAST.

*Yonshu Kutsu—Amendments to Charts with regard to Rocks south-eastward of.*

*No. 219 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1041 of 1919), are republished:—

*Former Notice.*—No. 407 of 1919. (This office No. 108 of 1919).

*Position.*—5-fathom rock, lat.  $36^{\circ} 45' N.$ , long.  $129^{\circ} 44' E.$

*Details.*—Amendments to the charts with regard to rocks south-eastward of Yonshu Kutsu, reported, in the former Notice, together with depths in the vicinity, are shown on the accompanying reproduction of a portion of chart No. 3666. It will be observed that the rock with a depth of less than 6 feet, about one mile north-westward of the 5-fathom rock, has been re-inserted on the charts.

*Charts affected.*—No. 3666, Fusan harbour to Chukupen bay.

„ 3480, Shantung promontory to Nagasaki.

„ 2347, Honshū, Kiusiu and Shikoku, &c.

„ 781, Pacific ocean—north-west sheet.

„ 2683, Pacific ocean.

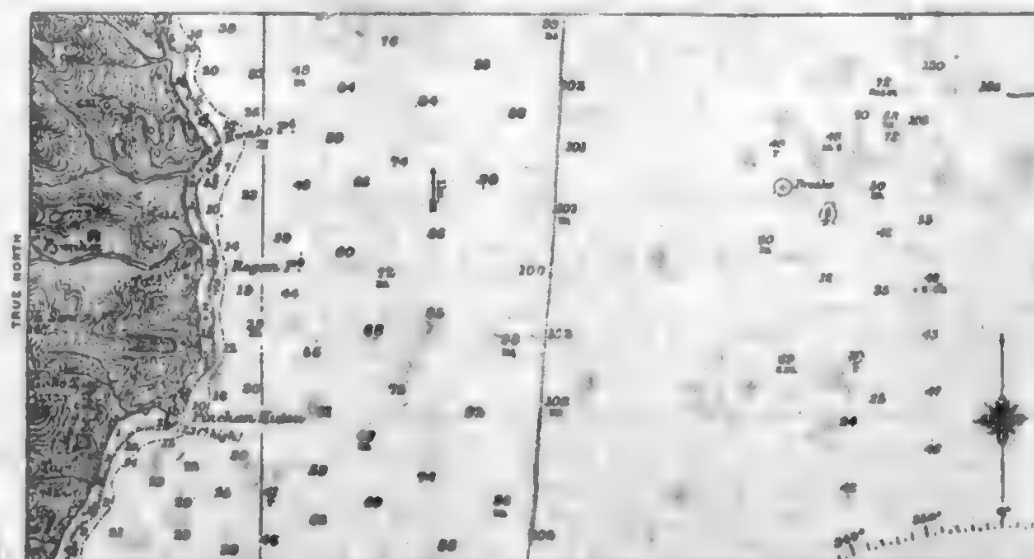
„ 2483, Atlantic and Indian oceans, &c.

„ 2937, Oceanic soundings, Indian and Western Pacific oceans.

„ 2459, North-West Pacific ocean, &c.

*Publication.*—E.O. of Korea, &c., Pilot, 1913, page 98; Revised Supplement (2), 1918.

*Authority.*—Tokyo Notice No. 273 of 1918. (H. 1678/19.)



Reproduction of Portion of Chart N° 3666



AFRICA, EAST COAST.

*Kilwa Kisiwani Harbour—Buoy disappeared.*

No. 220 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1050 of 1919), are republished:—

*Position.*—Formerly marking the eastern edge of the spit extending from Kisiwa Mbuga, and at a distance of about 5½ cables westward from the piers at Kikone.

Lat.  $8^{\circ} 56\frac{1}{4}'$  S., long.  $39^{\circ} 30\frac{1}{4}'$  E.

*Description.*—A red conical buoy.

*Remarks.*—The buoy has disappeared and is to be expunged from the charts.

*Chart affected.*—No. 661, Kilwa Kisiwani (with plan).

*Publication.*—Africa Pilot, Part III, 1915, page 339; Revised Supplement (2), 1919.

*Authority.*—H.M.S. *Hijacinth* (Remark Book, 1918). (H. 7601/18.)

INDIA, EAST COAST—GOPALPORE.

*Port Anchorage.*

No. 221 (second publication).—The following Notice to Mariners (No. 20 of 1919) issued by the Presidency Port Officer, Madras, is republished:—

“Notice is hereby given that, as a temporary measure, a wooden structure consisting of a post, 30 feet high, surmounted with a triangular shaped board—all painted white—in place of the masonry boundary pillar referred to in this office Notice to Mariners No. 39 of 1917 has been put up in lat.  $19^{\circ} 15' 49''$  N., long.  $84^{\circ} 55' 03''$  E., which is approximately N.  $60^{\circ}$  E (T) 370 feet from the original site.”

ARABIA, NORTH-EAST COAST—GULF OF OMAN.

*Maskat Island—Light established.*

No. 222 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 50M. of 1919), are republished:—

*Position of Light.*—On a point, at a distance of about 2½ cables  $132^{\circ}$  (S.  $50^{\circ}$  E. Mag.) from Fisher's Rock.  
Lat.  $25^{\circ} 37' 44''$  N.  
Long.  $58^{\circ} 36' 11''$  E.

*Description of Light.*—Flashing white: with a period of about five seconds.

A further notice will be issued when particulars have been received.

*Variation.*— $2^{\circ}$  E.

*Chart affected.*—No. 2869, Maskat and Al Matrah.

*Publications.*—List of Lights, Part VI, 1919, page 33.  
Indian List of Lights, 37th Issue, 1918, page 10.  
Persian Gulf Pilot, 1915, page 43.

*Authority.*—Director, Royal Indian Marine, Bombay, dated 1st July 1919.



PERSIAN GULF—SHATT-AL-ARAB RIVER.

*Sutan's (Devil's) Gap—Light buoy established in place of buoy.*

No. 223 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 51M. of 1919), are republished :—

*Position.*—At a distance of about  $1\frac{1}{2}$  cables  $328^{\circ}$  (N.  $34^{\circ}$  W. Mag.) from the western extreme of Dabba Island, in the position of the red conical buoy on the starboard hand side of the channel which it replaces.

Lat.  $30^{\circ} 26' 51''$  N.

Long.  $48^{\circ} 05' 30''$  E.

*Description.*—A light buoy painted green, with "W" in large letters, on its 3 sides, exhibiting an occulting red light.

*Chart affected.*—No. 1235, Mouth of the Euphrates.

*Publications.*—Indian List of Lights, 37th issue, 1918, page 12.  
Persian Gulf Pilot, 1915, page 289.

*Authority.*—The Port Officer, Basrah, dated 8th June 1919.

INDIA—WEST COAST.

*Tellicherry Anchorage—Buoy off Talayi temporarily removed.*

No. 224 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 52M. of 1919), are republished :—

*Position.*—At a distance of about 1 mile and 7 cables  $147^{\circ}$  (S.  $33^{\circ}$  E. Mag.) from Tellicherry light-house.

Lat.  $11^{\circ} 43' 25''$  N.

Long.  $75^{\circ} 29' 20''$  E.

*Details.*—The small spherical buoy marking the pinnacle rock was removed on the 13th May 1919, and will be replaced in position about the 1st of October 1919.

*Variation.*—Nil.

*Charts affected.*—No. 1322, Anchorage on the West Coast of India.  
„ 747, India, West Coast, Sheet X.

*Publication.*—West Coast of India Pilot, 1909, page 142.

*Authority.*—The Presidency Port Officer, Madras, dated 22nd May 1919.

The 10th July 1919.

INDIA—WEST COAST.

*Goa, Mandovi River—Annual Extinction of Leading Lights.*

No. 198 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 46-M. of 1919) are republished :—

*Subject.*—The Lights at Campal, Malim, Reis Magos, Verem, and Marca-tejo, will not be lighted from the 15th June to 15th August 1919, during the South-West Monsoon.

*Charts temporarily affected.*—No. 492, Aguada to St. George Island.  
„ 740, Achra River to Cape Ramas.

*Authority.*—The Captain of the Ports of Portuguese India, dated 19th May 1919.



INDIA, WEST COAST—KATHIAWAR.

*Diu—Annual Extinction of Lights.*

**No. 199 (third publication).**—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 47-M. of 1919) are republished:—

**Subject.**—The Lights of Forte de Mar, Couraca, Forte de Simbor and Forte de Barra at Brancavara will not be lighted from 15th June to 31st August 1919.

**Charts temporarily affected.**—No. 50, Diu Head to Goapnath Point.  
 „ 2736, Gulf of Kutch to Viziadrug.  
 „ 826, Karachi to Vengurla.

**Authority.**—The Captain of the Ports of Portuguese India, dated 19th May 1919.

INDIA—WEST COAST.

*Buoys between Bankot and Bhatkal removed for the South-West Monsoon.*

**No. 200 (third publication).**—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 49-M. of 1919) are republished:—

**Details.**—The following mark and buoys were removed from their position, for the South-West Monsoon, on the dates noted against them:—

Bankot Bar Buoys (3 in number)	...	10th May 1919.
Ambalgarh Reef Buoy	...	16th „ „
Malvan Rock Buoy	...	18th „ „
Malvan Inner Harbour Buoys (2 in number)	...	23rd „ „
Malvan Red Light Boat	...	23rd „ „
Malvan Fort Harbour Buoy	...	24th „ „
Malvan Johnston Castle Rock Buoy	...	23rd „ „
Malvan Rajkot Fort Buoy	...	24th „ „
Chaldea Rock Buoy	...	17th „ „
Vengurla Bubra Rock Buoy	...	23rd „ „
Vengurla South Rock Buoy	...	25th „ „
Bhatkul Rock Buoy	...	16th „ „
Modeshwar Dart Rock Buoy	...	11th „ „

**Authority.**—The Deputy Commissioner of Salt and Excise, Southern Division, Dharwar, dated 16th June 1919.

BAY OF BENGAL.

*Caution. Report of a large piece submerged wreckage.*

**No. 201 (third publication).**—

**Subject.**—The Master of the SS. “Garryvale” reports having passed a large piece submerged wreckage just awash in the following position:—

**Position.**—Lat. 18° 35' N., long. 86° 51' E.

**Caution.**—Mariners are hereby warned.

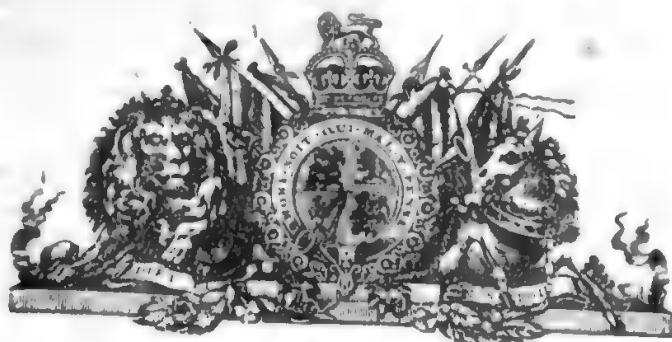
**Charts affected.**—No. 829, Cocanada to Bassein River.

„ 70, Bay of Bengal.

**Authority.**—Master of the SS. “Garryvale” telegram, dated 9th July 1919.

W. K. THYNE, COMDR., R.I.M.,  
 Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY. AUGUST 6. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 28th July 1919.

#### CHINA SEA—BERHALA STRAIT.

*Berhala Island—Non-existence of Shoal south-eastward of.*

*No. 334 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1100 of 1919), are republished:—

*Position on charts.*—At a distance of about 19 miles south-eastward from Berhala island.

Lat.  $1^{\circ} 01\frac{1}{2}'$  S., long.  $104^{\circ} 41\frac{1}{2}'$  E.

*Description.*—A 4-fathom shoal, marked "E.D." on charts.

*Remarks.*—An examination of this locality has failed to reveal any trace of this shoal; it is accordingly to be expunged from the charts.

*Charts affected.*—No. 1789, Channels between Sumatra, Linga and Singkep.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago, sheet I.

„ 1263, China sea.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 294.

*Authority.*—Hague Notice No. 1095 of 1919. (H. 3917/19.)

#### CELEBES, SOUTH-EAST COAST.

*Gulf of Boni and Approach—Non-existence of Shoals.*

*No 235 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1103 of 1919), are republished:—

*Positions.*—(a) Pasir Putih reef, situated off the eastern coast of Pulo Salayar, at a distance of about 5 miles eastward from Tanjong Padang.

Lat.  $6^{\circ} 16'$  S., long.  $120^{\circ} 37\frac{1}{2}'$  E.



(b) A reef marked "P.D.," situated off the eastern coast of Pulo Salayar, at a distance of about 3 miles north-eastward from Tanjong Lohea.

Lat.  $6^{\circ} 01\frac{1}{2}'$  S., long.  $120^{\circ} 36'$  E.

(c) Boni rock, situated at a distance of about 22 miles northward from Tanjong Lassa.

Lat.  $5^{\circ} 15\frac{1}{2}'$  S., long.  $120^{\circ} 33'$  E.

*Details.*—Information has been received that the above shoals do not exist and they are to be expunged from the charts.

*Charts affected.*—No. 3616, Tomori gulf to Salayar strait.

„ 941b, Eastern Archipelago, sheet 2.

„ 942a, Eastern Archipelago, sheet 3.

„ 2759a, Australia, northern portion.

„ 1263, China sea.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, pages 453, 454, 459.

*Authority.*—Hague Notice No. 1087 of 1919. (*H.* 3910/19.)

#### RED SEA—STRAIT OF JUBAL.

*Ashrafi Islands—Non-existence of Shoal Depth reported north-westward of.*

*No. 236 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1118 of 1919), are republished :—

*Position on charts.*—At a distance of about  $7\frac{1}{2}$  miles north-westward of Ashrafi reef light.

Lat.  $27^{\circ} 52\frac{1}{2}'$  N., long.  $33^{\circ} 36\frac{1}{2}'$  E.

*Description.*—A 7-fathom shoal, which had not been examined.

*Remarks.*—A reliable search for this reported shoal has failed to reveal any trace of its existence; the shoal is to be expunged from the charts.

*Charts affected.*—No. 2838, Strait of Jubal.

„ 757, Gulf of Suez.

„ 8a, Red sea—sheet I.

„ 2523, Red sea.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 107; Revised Supplement (3), 1917.

*Authority.*—H. M. Surveying vessel *Merlin*, Hyd. Note No. 2 of 1919. (*H.* 2257/19.)

#### KOREA, EAST COAST.

*Won San Chin (Gensan Bay)—Light-Buoy established in place of Buoy.*

*No. 237 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1123 of 1919), are republished :—

*Position.*—At a distance of about  $4\frac{1}{2}$  cables south-eastward from Chotoku To light-house, in the position formerly occupied by the black and red horizontally striped conical buoy with spherical topmark, which has been withdrawn.

Lat.  $39^{\circ} 10\frac{1}{2}'$  N., long.  $127^{\circ} 26\frac{1}{2}'$  E.

*Description.*—A spherical light-buoy painted in black and red horizontal stripes, exhibiting a *flashing white light every three seconds.*



*Chart affected.*—No. 54, Plans of Port Lazaref and Yung hing bay, and Won san chin.

*Publication.*—E.C. Korea, &c., Pilot, 1913, page 104.

*Authority.*—Chosen Notice No. 58 of 1919. (H. 3993/19.)

RED SEA—EASTERN SHORE.

*Hassani Island—Correction to Chart with regard to Shoal southward of.*

*No. 238 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1127 of 1919), are republished:—

*Position (approximate).*—Lat.  $24^{\circ} 49' 00''$  N., long.  $37^{\circ} 03' .8''$  E.

*Details.*—The coral shoal with a depth of less than 6 feet, reported in the above position in the year 1915, is not shown on some copies of chart No. 1109 and is to be inserted.

*Chart affected.*—No. 1109, Hassani island.

*Authority.*—Hydrographic Department. (H. 6058/19.)

INDIAN OCEAN—MALDIVE ISLANDS.

*Ihavandiffulu Atoll—Existence of Wreck.*

*No. 239 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 54M. of 1919), are republished:—

*Details.*—The Master of S.S. *Warmail* reports having seen on 19th June 1919 the wreck of a steamer, having a thin black funnel and two masts, lying high up on the reef at the north-west corner of Ihavandiffulu Atoll; the wreck appears to be rounding the point to ships approaching from the eastward.

*Position.*—South side of the eight degree channel, at a distance of about 11 cables,  $80^{\circ}$  (N.  $82^{\circ}$  E. Mag.) from the centre of Wagann Island. Lat.  $7^{\circ} 6'$  N., long.  $72^{\circ} 53'$  E.

*Variation.*— $2^{\circ}$  W.

*Charts affected.*—No. 66a, Maldive Island, Northern portion.

„ 827, Vengurla to Cape Comorin.

„ 748b, Indian Ocean, Northern portion.

*Publication.*—West Coast of India Pilot, 1909, page 374.

*Authority.*—The Port Officer, Aden, dated 3rd July 1919.



*The 21st July 1919.*

**BORNEO, EAST COAST—TARAKAN ISLAND.**

*Linkas and Approaches—Light-Buoys established ; Amendments to Charts.*

*No. 225 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1064 of 1919), are republished :—

*Former Notice.*—No. 752 of 1919. (*This Office No. 157 of 1919.*)

*Position.*—Linkas, lat.  $3^{\circ} 17\frac{1}{2}'$  N., long  $117^{\circ} 35\frac{1}{2}'$  E.

*Details.*—The accompanying reproduction of a portion of chart No. 3577 shows the following :—

- (a) The position and description of three light-buoys recently established off Linkas.
- (b) Amendments to the chart with regard to shoals.
- (c) Amended position of Linkas oil jetty.

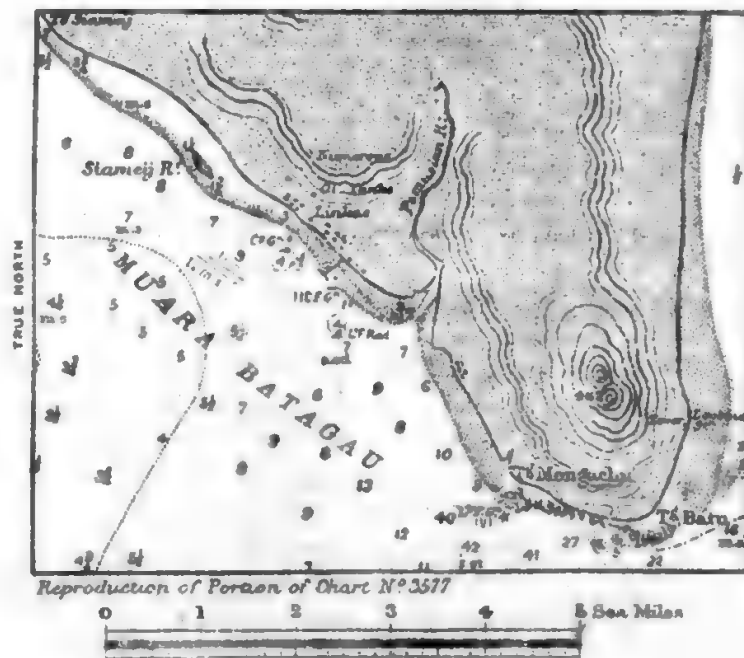
*Charts affected.*—No. 3577, Sesajap and Bulungan rivers.

„ 2636, North part of the Strait of Makassar.

„ 2576, Sulu archipelago and north-east coast of Borneo.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, pages 440, 441, 443 ; Revised Supplement (2), 1918.

*Authority.*—Hague Notice No. 956 of 1919. (*H. 3629/19.*)



**JAVA, NORTH COAST—BATAVIA ROADS.**

*Tanjong Priok Approach—Light-Buoy established in place of Buoy.*

*No. 226 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1066 of 1919), are republished :—

*Position.*—At a distance of  $6\frac{1}{2}$  cables,  $60^{\circ}$  (N.  $60^{\circ}$  E. Mag), from the light on the Eastern breakwater at Tanjong Priok harbour, in the position formerly occupied by the red can buoy which it replaces.

Lat.  $6^{\circ} 04\frac{1}{2}'$  S., long.  $106^{\circ} 53\frac{1}{2}'$  E.



*Description.*—A light-buoy painted red, exhibiting a fixed green light.

*Variation.*—Nil.

*Chart affected.*—No. 933, Batavia roads.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 91; Supplement, 1918.

*Authority.*—Hague Notice No. 919 of 1919. (H. 3619/19.)

#### JAPAN—SHIMONOSEKI KO.

*Koshiki Se*—Non-Existence of Shoal north-eastward of.

No. 227 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1068 of 1919), are republished:—

*Position.*—At a distance of about 4 cables north-eastward of Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{4}'$  N., long.  $130^{\circ} 56'$  E.

*Details.*—The shoal about half a cable in extent, shown on the chart in the above vicinity as having depths of from 2 to  $2\frac{1}{2}$  fathoms, does not exist and is to be erased; the under-mentioned depths are to be substituted:—

Distance and bearing from Ganryu jima lighthouse.	Depth.
(a) 4 cables, $24^{\circ}$ (N. $29^{\circ}$ E. Mag.)	... $5\frac{1}{2}$ fathoms.
(b) 4 " $21^{\circ}$ (N. $26^{\circ}$ E. Mag.)	... $5\frac{1}{2}$ "

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

" 1578, Shimonoseki kaikyo.

" 532, Approach to Shimonoseki kaikyo.

*Publication.*—Japan Pilot, 1914, page 570.

*Authority.*—Japanese Government Chart. (H. 3802/19.)

#### JAPAN—INLAND SEA, SUWO NADA.

*Ube No Misaki*—Wreck southward of.

No. 228 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1071 of 1919), are republished:—

*Position (approximate).*—At a distance of about 5 miles southward of Ube no misaki.

Lat.  $33^{\circ} 50' 45''$  N., long.  $131^{\circ} 16' 33''$  E.

*Description.*—Sunken wreck of the sailing vessel *Daini Nunobiki Maru*.

*Remarks.*—The vessel is marked with a pole displaying flag "B" International Code.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

" 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 53 of 1919. (H. 3847/19.)



## JAPAN—INLAND SEA.

*Mihara Seto and Onomichi Seto Approaches—Existence of Rocks.*

No. 229 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1072 of 1919), are republished:—

Position.		Depth.	Name.
Lat.	Long.		
(a) 34° 20' 39" N., 133° 11' 04" E.	-	5½ fathoms	- Akane.
(b) 34° 20' 57" N., 133° 10' 40" E.	-	6	- Matsui Dashi.
(c) 34° 21' 38" N., 133° 08' 39" E.	-	3	- Hikozaiki no iso.
(d) 34° 21' 55" N., 133° 08' 50" E.	-	2	- Shinakano iso.
(e) 34° 24' 04" N., 133° 11' 15" E.	-	1	- Kanazaki no ishi.
(f) 34° 23' 33" N., 133° 14' 00" E.	-	2½	- Takomadowa.
(g) 34° 22' 02" N., 133° 13' 49" E.	-	2½	- Okino Takadowa.
(h) 34° 11' 06" N., 133° 00' 40" E.	-	4	- Kabura Dashi.

Note.—With reference to rock (g), the depth of 2½ fathoms is to be substituted for 3½ fathoms hitherto shown on the charts.

Charts affected.—No. 3325, Channels between Neko seto and Mekari seto.

„ 83, Gogo shima to Miyo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

Publication.—Japan Pilot, 1914, pages 333, 341, 342, 350.

Authority.—Tokyo Notices Nos. 35 to 38 of 1919. (H. 3640/19.)

## NEW GUINEA, NORTH COAST.

*Wandamen Bay Approach—Increased Depth on Shoal.*

No. 230 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1075 of 1919), are republished:—

Position.—At a distance of about 6½ miles north-eastward from the northern extremity of Ron island.

Lat. 2° 13' S., long. 134° 28½' E.

Details.—A least depth of 6 fathoms has been found to exist on the reef situated in the above position, instead of a depth of 3 fathoms as hitherto shown on the charts.

Charts affected.—No. 942b, Eastern Archipelago—sheet IV.

„ 2759a, Australia—northern portion.

Publication.—Pacific Islands Pilot, Vol. I, 1908, page 236.

Authority.—Hague Notice No. 1086 of 1919. (H. 3909/19.)

## INDIA, WEST COAST.

*Kannanur Anchorage—Buoy permanently laid.*

No. 231 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 53M. of 1919), are republished:—

Former Notice No. 29M. of 1919. (This office No. 131 of 1919.)

Details.—The small dome-shaped red buoy referred to in the above Notice will not be withdrawn annually for the South-West Monsoon.



*Charts affected.*—No. 1322, Anchorage on the West Coast of India.  
 „ 747, West Coast of India, Sheet X.

*Authority.*—The Presidency Port Officer, Madras, dated 22nd May 1919.

# AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Point Lonsdale Light—Intended alteration in character.*

*No. 232 (second publication).—*

*Subject.*—The Occulting Light with White and Red Sectors on Point Lonsdale will be replaced by a Group Flashing Light with White and Red Sectors, on or about 15th September 1919.

*Position.*—On the West side of entrance to Port Phillip.

Lat.  $38^{\circ} 17\frac{1}{2}'$  S., long.  $144^{\circ} 36\frac{1}{2}'$  E. on Chart No. 1171.

*Details.*—The Occulting Light every fifteen seconds, with White and Red Sectors, will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing Light with White and Red Sectors, showing two flashes in quick succession every six seconds, thus:—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$\frac{1}{2}$ secs.

*Power.*—White, 4,000 candles. Red, 1,500 candles.

*Remarks.*—The light will be unwatched, but the Signal Station will be continued as heretofore. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 2747, Entrance to Port Phillip.

„ 1171, Port Phillip.

„ 1695b, Bass Strait, Western sheet.

„ 3169, Port Phillip to Gabo Island.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919. No. 2418.

Australia Pilot, Vol II, 1918, page 87.

*Authority.*—Melbourne Notice No. 4 of 1919.

# AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Eagle Nest Point (Split Point)—Intended alteration in character—  
 Auxiliary White Light to be discontinued.*

*No. 233 (second publication).—*

*Subject.*—The Fixed Red Light with White Sectors on Eagle Nest Point (Split Point) will be replaced by a Group Flashing White Light with Red Sectors; and further, that the Auxiliary White Light will be discontinued, on or about 1st October 1919.



*Position.*—Lat.  $38^{\circ} 28'$  S., long.  $144^{\circ} 06\frac{1}{2}'$  E. on Chart No. 1695b.

*Details.*—The Fixed Red Light with White Sectors will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing White Light with Red Sectors, showing four flashes in quick succession every twelve seconds, thus:—

Flash	Eclipse	Flash	Eclipse	Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$7\frac{1}{2}$ secs.

*Sectors.*—Red from  $233^{\circ}$  (S.  $45^{\circ}$  W. Mag.) to  $249^{\circ}$  (S.  $61^{\circ}$  W. Mag.); White from  $249^{\circ}$  (S.  $61^{\circ}$  W. Mag.) to  $39^{\circ}$  (N.  $31^{\circ}$  E. Mag.); Red from  $39^{\circ}$  (N.  $31^{\circ}$  E. Mag.) to  $48^{\circ}$  (N.  $40^{\circ}$  E. Mag.); obscured elsewhere.

*Visibility.*—White, 20 miles. Red, 9 miles.

*Power.*—White, 7,000 candles. Red, 3,000 candles.

*Auxiliary Light.*—The Auxiliary Fixed White Light will be discontinued, on or about 1st October 1919.

*Remarks.*—The light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1695b, Bass Strait. Western sheet.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals. Part VI, 1919, No. 2413.

Australia Pilot, Vol. II, 1918, page 82.

*Authority.*—Melbourne Notice No. 5 of 1919.

The 14th July 1919

#### KOREA, EAST COAST.

*Kochin Kutchii*—Obstruction reported north-eastward of.

*No. 202 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 978 of 1919), are re-published:—

*Position (approximate).*—At a distance of about  $1\frac{1}{2}$  miles north-eastward from Kochin Kutchii.

Lat.  $37^{\circ} 28' 35''$  N., long.  $129^{\circ} 12' 41''$  E.

*Details.*—A vessel drawing  $18\frac{1}{2}$  feet reports having touched a submerged obstruction in the above position.

*Remarks.*—The position is to be encircled by a danger line and marked “Obstruction repd. (1919) (posn. approx.).”

*Chart affected.*—No. 882, Chukupen bay to Suon Kutchi.

*Publication.*—E.C. Korea, &c., Pilot, 1913, page 98.

*Authority.*—Tokyo Notice No. 17 of 1919. (H. 3402/19.)



JAPAN—INLAND SEA, IYO NADA.

Gogo Sima Anchorage—Wreck removed.

No. 203 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 979 of 1919), are republished:—

Former Notice No. 678 of 1919. (This Office No. 141 of 1919.)

Position.—At a distance of about 5<sup>1</sup>/<sub>10</sub> cables eastward from Kimisaki Iso.

Lat. 33° 54<sup>1</sup>/<sub>4</sub>' N., long. 132° 42' E.

Description.—The wreck of the SS. *Daishi Aioi Maru*, formerly situated in the above position, has been salvaged and the wreck symbol is to be expunged from the charts.

Charts affected.—No. 694, Plan of Gogo sima and Horiyé anchorages.

„ 83, Gogo shima to Miyo shima.

„ 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

Authority.—Tokyo Notice No. 33 of 1919. (H. 3463/19.)

SOUTH AUSTRALIA—SPENCER'S GULF, EAST COAST.

Wallaroo—Alteration in Character of Light.

No. 204 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 981 of 1919), are republished:—

Position.—On the outer end of the jetty.

Lat. 33° 55<sup>1</sup>/<sub>4</sub>' S., long. 137° 37' E.

New abridged description.—Lt. Fl., W.R., ev. 2 sec. 30 ft., vis. 7 m.

Alteration.—The character of the light has been altered from fixed red and green to flashing every two seconds, with white and red sectors, thus:—

Flash,	eclipse.
1 <sup>1</sup> / <sub>10</sub> secs.	1 <sup>2</sup> / <sub>10</sub> secs.

Remarks.—The red sectors remain unaltered and the white light shows over the former limits of the green sector.

Charts affected.—No. 402, Tickera point to Cape Elizabeth.

„ 2389, St. Vincent and Spencer gulfs.

Publication.—List of Lights, Part VI, 1919, No. 2325.

Authority.—Adelaide Harbour Board Notice No. 6 of 1918. (H. 3131/19.)

JAPAN, INLAND SEA—HIUCHI NADA.

Okino Se—Decreased Depth.

No. 205 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 982 of 1919), are republished:—

Position.—Lat. 34° 06<sup>1</sup>/<sub>4</sub>' N., long. 133° 06' E.

Details.—The depth over this rock is 3<sup>1</sup>/<sub>2</sub> fathoms, instead of 4<sup>1</sup>/<sub>2</sub> fathoms as hitherto shown on the charts.



*Charts affected.*—No. 83, Gogo shima to Miyo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, page 328.

*Authority.*—Tokyo Notice No. 32 of 1919. (H. 3462/19.)

#### JAPAN—HONSHU, NORTH-WEST COAST.

##### Wakasa Bay—Fishing Area.

*No. 206\* (third publication.)*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 985 of 1919), are republished :—

*Details.*—Fishing is carried out within the undermentioned area from July to October, annually :—

The area is bounded by lines joining the following positions :—

- (a) Lat.  $36^{\circ} 03' 45''$  N., long.  $135^{\circ} 35' 45''$  E.
- (b) Lat.  $35^{\circ} 57' 05''$  N., long.  $135^{\circ} 36' 00''$  E.
- (c) Lat.  $35^{\circ} 51' 40''$  N., long.  $135^{\circ} 24' 15''$  E.
- (d) Lat.  $36^{\circ} 03' 40''$  N., long.  $135^{\circ} 27' 15''$  E.

*Note.*—The above area is to be indicated on the charts in pecked lines and marked “From 1st July to 30th October, annually, vessels should navigate with caution within this area, buoys being laid out for fishing purposes (1918.)”

*Charts affected.*—No. 2174, Amarube zaki to Ando zaki, &c.

„ 1495, Aburatani bay to Ando zaki.

*Publication.*—Japan Pilot, 1914, page 615.

*Authority.*—Tokyo Notice No. 369 of 1918. (H. 2874/19)

#### JAPAN, INLAND SEA—AKI.

##### Hiroshima Approach—Existence of Wreck.

*No. 207 (third publication.)*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 992 of 1919), are republished :—

*Position.*—At a distance of about 17 cables eastward from Ko Nasami jima lighthouse.

Lat.  $34^{\circ} 17' 55''$  N., long.  $132^{\circ} 23' 20''$  E., on chart No. 3469.

*Description.*—A sunken wreck, with mast visible above water.

*Charts affected.*—No. 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 16 of 1919. (H. 3401/19.)

#### JAPAN, INLAND SEA—HONSHŪ.

##### (1) Uchi No Umi Approaches—Existence of Rocks.

##### (2) Koguro Jima—Rock south-eastward of.

*No. 208 (third publication.)*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1001 of 1919), are republished :—

##### (1) Uchi No Umi Approaches.

(i) *Position.*—At a distance of about 2½ cables southward from Kashiwa shima summit.

Lat.  $34^{\circ} 15' 47''$  N., long.  $132^{\circ} 46' 00''$  E.



*Depth.*—1½ fathoms.

*Remarks.*—This rock is known as "Kobushi so ba."

*Note.*—This rock is the outer extremity of a reef which extends to the southward from the south-eastern end of Kashiwa shima.

(ii) *Position.*—At a distance of about 2½ cables north-westward from the western extreme of Oshiba shima.  
Lat. 34° 16' 32" N., long. 132° 46' 50" E.

*Depth.*—2 fathoms.

*Remarks.*—This rock is known as "Kajikake iwa."

(iii) *Position.*—At a distance of about 4½ cables eastward from Oshiba shima 372-foot summit.

Lat. 34° 16' 35" N., long. 132° 48' 32" E.

*Depth.*—Three-quarters of a fathom.

*Remarks.*—This rock, which is to be shown on the charts by the symbol for a rock with a depth of less than 6 feet, is known as "Kami no su."

*Note.*—Foul ground extends to the south-westward of this rock as far as the south-eastern side of Oshiba shima.

## (2) Koguro Jima.

*Position.*—At a distance of about 3 cables south-eastward from Koguro jima 347-foot summit.

Lat. 34° 09' 00" N., long. 132° 39' 04" E.

*Depth.*—4 fathoms.

*Remarks.*—This rock is known as "Otono no ishi."

*Note.*—The above positions refer to chart No. 3325.

*Charts affected.*—No. 3325, Channels between Neko seto and Mekari seto.

" 83, Gogo shima to Miyo shima.

" 3469, Hiroshima wan.

" 2875, Naikai (Seto uchi) or Inland sea.

*Publication.*—Japan Pilot, 1914, page 360.

*Authority.*—Tokyo Notice No. 19 of 1919. (H. 3404/19.)

## BORNEO—NORTH-EAST COAST.

*Tambisan Is. and—Rock reported north-westward of.*

*No. 209 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1002 of 1919), are republished:—

*Position (approximate).*—At a distance of about 6 miles north westward from Tambisan island summit.

Lat. 5° 32' 30" N., long. 119° 04' 40" E., on chart No. 1868.

*Depth.*—About 2 feet.

*Note.*—The rock is marked by discoloured water.

*Remarks.*—The symbol for a rock with a depth of less than 6 feet is to be inserted on the charts in the above position with the note "Reported (1918) (psn. approx.)."

*Charts affected.*—No. 1868, Taganak to Tawi Tawi.

" 2576, Sulu archipelago, and north-east coast of Borneo.

" 2660b, China sea, southern portion—eastern sheet.

*Publication.*—Eastern Archipelago Pilot, Part I, 1911, page 176.

*Authority.*—Tokyo Notice No. 12 of 1919. (H. 3404/19.)



## JAPAN, INLAND SEA—IYO NADA.

*Sago No Seto—Existence of Wreck, marked by Buoy and Light.*

*No. 210 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1004 of 1919), are republished:—

*Position (approximate).*—At a distance of about half a mile southward from Sago shima 370-foot summit.

Lat.  $33^{\circ} 51' 45''$  N., long.  $132^{\circ} 03' 45''$  E.

*Description.*—Sunken wreck of the sailing vessel *Dempō Maru*.

*Remarks.*—The wreck is marked by a buoy and flag and at night by a light.

*Note.*—A note "*Marked by buoy and Lt. (posn. approx.)*" is to be inserted on the charts against this wreck.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 376 of 1918. (*H.* 2878/19.)

## JAPAN, INLAND SEA—HONSHŪ.

*Hakata Seto and Approaches—Existence of Rocks.*

*No. 211 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1016 of 1919), are republished:—

(i) *Position.*—At a distance of about  $3\frac{1}{2}$  cables north-westward from Stone beacon.

Lat.  $34^{\circ} 15' 49''$  N., long.  $133^{\circ} 03' 03''$  E.

*Depth.*— $6\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as "Chitori ishi."

(ii) *Position.*—At a distance of about  $2\frac{1}{2}$  cables north-westward from the northern extremity of Hakata jima.

Lat.  $34^{\circ} 14' 39''$  N., long.  $133^{\circ} 05' 55''$  E.

*Depth.*— $5\frac{1}{2}$  fathoms.

*Remarks.*—This rock is known as "Kanzaki dashi."

(iii) *Position.*—At a distance of about 4 cables north-westward from Akone shima 433-foot summit.

Lat.  $34^{\circ} 14' 36''$  N., long.  $133^{\circ} 08' 49''$  E.

*Depth.*— $2\frac{1}{2}$  fathoms.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, page 353.

*Authority.*—Tokyo Notice No. 20 of 1919. (*H.* 3405/19.)

## JAPAN—HONSHŪ, SOUTH COAST.

*Nagoya Ko—Alteration in Dredged Channel Leading Lights.*

*No. 212 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1021 of 1919), are republished:—

1. Alteration in characteristics of front light:

*Position.*—Lat.  $35^{\circ} 05' 18''$  N., long.  $136^{\circ} 52' 32''$  E.

*New abridged description.*—Lt. Alt., Red Gn. ev. 10 sec., 33 ft. vis. 11 m.



*Details.*—The alternating white and red light has been replaced by a light having the undermentioned characteristics :—

*Character.*—An alternating red and green light every ten seconds

*Elevation.*—33 feet.

*Visibility.*—11 miles.

*Power.*—Red light 150 candles ; green light 450 candles.

*Structure.*—White square wooden structure.

2. Alteration in position and characteristics of rear light :

*New position.*—At a distance of about 2 cables southward from former position, and  $1\frac{3}{4}$  cables,  $13^{\circ}$  (N.  $18^{\circ}$  E. Mag.), from front light

*New abridged description.*—2 Lts. F. Red (vertical); 100 & 67 ft., vis. 15 & 13 m.

*Details.*—The former fixed red light has been discontinued and is replaced by two lights having the undermentioned characteristics :—

*Character.*—Two fixed red lights, vertical.

*Elevation.*—100 feet and 67 feet.

*Visibility.*—15 miles and 13 miles.

*Power.*—750 candles.

*Structure.*—Square iron framework.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No 952, Owashi wan to Atsumi wan, &c.

„ 996, Kii suido to Tokyo.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2031, 2032.

Japan Pilot, 1914, pae 169 ; Revised Supplement 1917.

*Authority.*—Tokyo Notice No. 4 of 1919. (H. 3138/19.)

RED SEA—EASTERN SHORE.

*Ras El Askar Approaches*—Beacons removed ; Buoys withdrawn.

No. 213 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1023 of 1919), are republished :—

(a) Beacons removed :

- (i) *Position.*—On the western side of Jinnabiyat island.  
Jinnabiyat island, lat.  $19^{\circ} 46'$  N., long.  $40^{\circ} 35\frac{1}{2}'$  E.

*Description.*—Beacon with triangular topmark.

- (ii) *Position.*—Near the northern end of El Mafrikat.

*Description.*—Beacon with triangular topmark.

- (iii) *Position.*—On the southern side of Shab Namis.

*Description.*—Beacon with ball topmark.

- (iv) *Position.*—On the western side of Shab Awda.

*Description.*—Beacon with ball topmark.

*Remarks.*—The above beacons have been removed and are to be expunged from the charts.



*(b) Buoys withdrawn:**(i) Position.*—On the north-eastern side of Bab el Bahhar.*Description.*—A black and white vertically striped can buoy.*(ii) Position.*—On the south-western side of Bab el Bahhar.*Description.*—A red buoy with cage topmark.*(iii) Position.*—On the northern end of Katat el Awwal.*Description.*—A black and white chequered spherical buoy with topmark.*Remarks.*—The above buoys have been withdrawn and are to be expunged from the charts.*Charts affected.*—No. 14, Approaches to Ras el Askar.

„ 8c, Red sea—sheet 3.

*Publication.*—Red Sea, &c., Pilot, 1909, page 340.*Authority.*—Hydrographic Department. (*H.* 2129/19.)

## JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO APPROACH.

*Motoyama Zaki*—Wrecks southward and south-westward of.*No. 214 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1025 of 1919), are republished:—*(i) Position.*—At a distance of about 2 miles southward from Motoyama zaki.Lat.  $33^{\circ} 53' 55''$  N., long.  $131^{\circ} 10' 19''$  E.*Description.*—Sunken wreck of a sailing vessel with two masts and gaff showing 15 feet above water.*(ii) Position.*—At a distance of about  $2\frac{1}{2}$  miles south-westward from Motoyama zaki.Lat.  $33^{\circ} 53' 19''$  N., long.  $131^{\circ} 09' 25''$  E.*Description.*—Sunken wreck of a collier with mast showing about 20 feet above water.*(iii) Position.*—At a distance of about  $2\frac{1}{2}$  miles south-westward from Motoyama zaki.Lat.  $33^{\circ} 53' 37''$  N., long.  $131^{\circ} 09' 17''$  E.*Description.*—Sunken wreck of a sailing vessel with mast showing about 10 feet above water.*Remarks.*—The above positions refer to chart No. 3225.*Charts affected.*—No. 3225, Shimonoseki kaikyo to Marayama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 379 of 1918. (*H.* 2880/19.)

## CELEBES, EAST COAST—GULF OF TOMINI.

*Libiata Islet*—Rock south-westward of.*No. 215 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1034 of 1919), are republished:—*Position.*—At a distance of about  $6\frac{1}{2}$  cables south-westward from Libiata islet.Lat.  $0^{\circ} 28' 00''$  N. long.  $122^{\circ} 19' 45''$  E.*Depth.*—About 3 feet.*Note.*—The rock has a diameter of about 330 yards.*Remarks.*—The symbol for a rock with a depth of less than 6 feet is to be inserted on the chart.*Chart affected.*—No. 900, Tilamuta harbour to Tanjong Tuladenggi.*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 523.*Authority.*—Hague Notice No. 1397 of 1918. (*H.* 6237/18.)



JAPAN, INLAND SEA—SHIMONOSEKI APPROACH.

*Ganryu Jima Lighthouse—Wreck north-eastward of.*

No. 216 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1035 of 1919), are republished:—

*Position.*—At a distance of 2½ cables, 60° (N. 65° E. Mag.), from Ganryu jima lighthouse.

Lat. 33° 56½' N., long. 130° 56' E.

*Description.*—Sunken wreck of the SS. *Fusa Maru*, with mastheads visible above water.

*Variation.*—5° W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 47 of 1919. (H. 3649/19.)

JAPAN—INLAND SEA.

*Nagasaki no Seto—Amendments to Chart with regard to Shoals and Rocks.*

No. 217 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1039 of 1919), are republished:—

*Position.*—Hakodai, lat. 34° 17½' N., long. 133° 10' E.

*Details.*—Amendments to chart No. 3325 with regard to shoals and rocks in Nagasaki no Seto, embodying the latest information, are shown on the accompanying reproduction of a portion of that chart.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, page 337.

*Authority.*—Tokyo Notice No. 371 of 1918. (H. 2875/19.)



Reproduction of Portion of Chart No. 3325.

Scale 1:100,000



SOUTH PACIFIC OCEAN—BISMARCK ARCHIPELAGO. NEW BRITAIN.

*Lolobau—Rocks reported westward of.*

No. 218 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1040 of 1919), are republished:—

*Position.*—Banban, lat.  $4^{\circ} 54' S.$ , long  $151^{\circ} 03\frac{1}{2}' E.$

*Details.*—The accompanying reproduction of a portion of chart No. 3553 shows the positions of several rocks reported to exist westward of Lolobau.

*Chart affected.*—No. 3553, Gazelle Peninsula and St. George's channel.

*Publication.*—Pacific Islands Pilot, Vol. I, 1908, page 377.

*Authority.*—U.S.A. Hyd. Office Notice No. 799 of 1919. (*H* 3177/19.)



Reproduction of Portion of Chart N° 3553

KOREA—EAST COAST.

*Yonshu Kutsu—Amendments to Charts with regard to Rocks south-eastward of.*

No. 219 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1041 of 1919), are republished:—

*Former Notice.*—No. 407 of 1919. (*This office No. 108 of 1919*).

*Position.*—5-fathom rock, lat.  $36^{\circ} 45' N.$ , long.  $129^{\circ} 44' E.$

*Details.*—Amendments to the charts with regard to rocks south-eastward of Yonshu Kutsu, reported in the former Notice, together with depths in the vicinity, are shown on the accompanying reproduction of a portion of chart No. 3666. It will be observed that the rock with a depth of less than 6 feet, about one mile north-westward of the 5-fathom rock, has been re-inserted on the charts.

*Charts affected.*—No. 3666, Fusan harbour to Chukupen bay.

„ 3480, Shantung promontory to Nagasaki.

„ 2347, Honshū, Kiusiu and Shikoku, &c.

„ 781, Pacific ocean—north-west sheet.

„ 2683, Pacific ocean.

„ 2483, Atlantic and Indian oceans, &c.

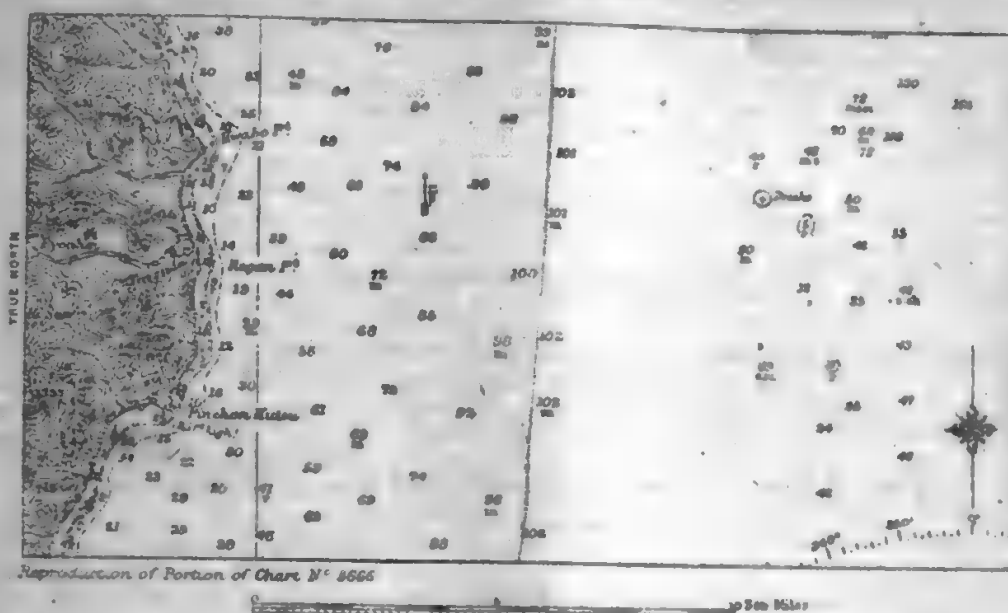
„ 2937, Oceanic soundings, Indian and Western Pacific oceans.

„ 2459, North-West Pacific ocean, &c.

*Publication.*—E.C. of Korea, &c., Pilot, 1913, page 98; Revised Supplement (2), 1918.



*Authority.*—Tokyo Notice No. 273 of 1918. (H. 1678/19.)



#### AFRICA, EAST COAST.

##### *Kilwa Kisiwani Harbour—Buoy disappeared.*

*No. 220 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1050 of 1919), are republished :—

*Position.*—Formerly marking the eastern edge of the spit extending from Kisiwa Mbuga, and at a distance of about 5½ cables westward from the piers at Kikone.

Lat.  $8^{\circ} 56\frac{1}{2}'$  S., long.  $39^{\circ} 30\frac{1}{2}'$  E.

*Description.*—A red conical buoy.

*Remarks.*—The buoy has disappeared and is to be expunged from the charts.

*Chart affected.*—No. 661, Kilwa Kisiwani (with plan).

*Publication.*—Africa Pilot, Part III, 1915, page 339; Revised Supplement (2), 1919.

*Authority.*—H.M.S. *Hyacinth* (Remark Book, 1918). (H. 7601/18.)

#### INDIA, EAST COAST—GOPALPORE.

##### *Port Anchorage.*

*No. 221 (third publication).*—The following Notice to Mariners (No. 20 of 1919) issued by the Presidency Port Officer, Madras, is republished :—

“ Notice is hereby given that, as a temporary measure, a wooden structure consisting of a post, 30 feet high, surmounted with a triangular shaped



board—all painted white—in place of the masonry boundary pillar referred to in this office Notice to Mariners No. 39 of 1917 has been put up in lat.  $19^{\circ} 15' 49''$  N., long.  $84^{\circ} 55' 03''$  E., which is approximately N.  $60^{\circ}$  E (T) 370 feet from the original site."

#### ARABIA. NORTH-EAST COAST—GULF OF OMAN.

##### *Maskat Island—Light established.*

*No. 222 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 50M. of 1919), are republished:—

*Position of Light.*—On a point, at a distance of about 2½ cables  $132^{\circ}$  (S.  $50^{\circ}$  E. Mag.) from Fisher's Rock.  
Lat.  $25^{\circ} 37' 44''$  N.  
Long.  $58^{\circ} 36' 11''$  E.

*Description of Light.*—Flashing white: with a period of about five seconds.

A further notice will be issued when particulars have been received.

*Variation.*— $2^{\circ}$  E.

*Chart affected.*—No. 2869, Maskat and Al Matrah.

*Publications.*—List of Lights, Part VI, 1919, page 33.  
Indian List of Lights, 37th Issue, 1918, page 10.  
Persian Gulf Pilot, 1915, page 43.

*Authority.*—Director, Royal Indian Marine, Bombay, dated 1st July 1919.

#### PERSIAN GULF—SHATT-AL-ARAB RIVER.

##### *Satan's (Devil's) Gap—Light buoy established in place of buoy.*

*No. 223 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 51M. of 1919), are republished:—

*Position.*—At a distance of about 1½ cables  $328^{\circ}$  (N.  $34^{\circ}$  W. Mag.) from the western extreme of Dabba Island, in the position of the red conical buoy on the starboard hand side of the channel which it replaces.  
Lat.  $30^{\circ} 26' 54''$  N.  
Long.  $48^{\circ} 05' 30''$  E.

*Description.*—A light buoy painted green, with "W" in large letters, on its 3 sides, exhibiting an occulting red light.

*Chart affected.*—No. 1235, Mouth of the Euphrates.

*Publications.*—Indian List of Lights, 37th issue, 1918, page 12.  
Persian Gulf Pilot, 1915, page 289.

*Authority.*—The Port Officer, Basrah, dated 8th June 1919.



INDIA—WEST COAST.

*Tellicherry Anchorage—Buoy off Talayi temporarily removed.*

*No. 224 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 52M. of 1919), are republished :—

*Position.*—At a distance of about 1 mile and 7 cables  $147^{\circ}$  (S.  $33^{\circ}$  E. Mag.) from Tellicherry light-house.

Lat.  $11^{\circ} 43' 25''$  N.

Long.  $75^{\circ} 29' 20''$  E.

*Details.*—The small spherical buoy marking the pinnacle rock was removed on the 13th May 1919, and will be replaced in position about the 1st of October 1919.

*Variation.*—Nil.

*Charts affected.*—No. 1322, Anchorage on the West Coast of India.  
„ 747, India, West Coast, Sheet X.

*Publication.*—West Coast of India Pilot, 1909, page 142.

*Authority.*—The Presidency Port Officer, Madras, dated 22nd May 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, AUGUST 13. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

The following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 7th August 1919.

#### BAY OF BENGAL—ARAKAN COAST.

*Western Approach Cheduba Strait—Islets washed away leaving Shoals only.*

*No. 240 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 55-M. of 1919), are republished:—

Former Admiralty Notice No. 772 of 1919 and R. I. M. Notice No. 102-M. of 1918. (*Calcutta, No. 387 of 1918.*)

*Position (a)*—Lat.  $19^{\circ} 00' N.$ , long.  $93^{\circ} 24' E.$

*Position (b)*—Lat.  $19^{\circ} 24' N.$ , long.  $93^{\circ} 23' E.$

*Details*—The two islets stated in the above Notices to Mariners as existing in the above positions have been washed away, leaving shoals only in lieu, over which the sea breaks heavily in the south-west monsoon.

*Variation*— $1\frac{1}{2}^{\circ} E.$

*Charts affected*—No. 832, Cheduba Strait to Ramree Harbour.

„ 821, Elephant Point to Cheduba Strait.

„ 881, Kyauk Pyu Harbour to Cheduba Strait.

„ 829, Cocanada to Bassein River.

„ 70, Bay of Bengal.

*Publication*—Bay of Bengal Pilot, 1910, page 356.

*Authority*—The Commanding Officer, R. I. M. S. "Mayo", dated 27th June 1919.



BAY OF BENGAL—ORISSA COAST.

*Dhamra river—Extension of Kanika Sand.*

*No. 241 (first publication).—*

*Subject.*—The Kanika Sand, Dhamra river, off Shortts island, has extended to the line of E and D buoys.

*Caution.*—Vessels should steer S.  $\frac{1}{2}$  W. Magnetic from E buoy until abreast of D buoy and then haul up for C buoy.

*Charts affected.*—No. 754, Dhamra river.

„ 829, Cocanada to Bassein river.

*Publication.*—Bay of Bengal Pilot, 1910, page 278. Revised Supplement (2) 1917.

*Authority.*—Port Officer, Chandballi, letter No. 522P., dated the 4th August 1919.

*The 28th July 1919.*

CHINA SEA—BERHALA STRAIT.

*Berhala Island—Non-existence of Shoal south-eastward of.*

*No. 234 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1100 of 1919), are republished :—

*Position on charts.*—At a distance of about 19 miles south-eastward from Berhala island.

Lat.  $1^{\circ} 01\frac{1}{2}'$  S., long.  $104^{\circ} 41\frac{1}{2}'$  E.

*Description.*—A 4 $\frac{1}{2}$ -fathom shoal, marked “E.D.” on charts.

*Remarks.*—An examination of this locality has failed to reveal any trace of this shoal; it is accordingly to be expunged from the charts.

*Charts affected.*—No. 1789, Channels between Sumatra, Linga and Singkep.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago, sheet I.

„ 1268, China sea.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 294.

*Authority.*—Hague Notice No. 1095 of 1919. (H. 3917/19.)

CELEBES, SOUTH-EAST COAST.

*Gulf of Boni and Approach—Non-existence of Shoals.*

*No. 235 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1103 of 1919), are republished :—

*Positions.*—(a) Pasir Putih reef, situated off the eastern coast of Pulo Salayar, at a distance of about 5 miles eastward from Tanjong Padang.

Lat.  $6^{\circ} 16'$  S., long.  $120^{\circ} 37\frac{1}{2}'$  E.



(b) A reef marked "P.D.," situated off the eastern coast of Pulo Salayar, at a distance of about 3 miles north-eastward from Tanjong Lofea.

Lat.  $6^{\circ} 01' S.$ , long.  $120^{\circ} 36' E.$

(c) Boni rock, situated at a distance of about 22 miles northward from Tanjong Lassa.

Lat.  $5^{\circ} 15' S.$ , long.  $120^{\circ} 33' E.$

*Details.*—Information has been received that the above shoals do not exist and they are to be expunged from the charts.

*Charts affected.*—No. 3616, Tomori gulf to Salayar strait.  
 „ 941b, Eastern Archipelago, sheet 2.  
 „ 942a, Eastern Archipelago, sheet 3.  
 „ 2759a, Australia, northern portion.  
 „ 1263, China sea.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, pages 453, 454, 459.

*Authority.*—Hague Notice No. 1087 of 1919. (H. 3910/19.)

#### RED SEA—STRAIT OF JUBAL.

*Ashrafi Islands—Non-existence of Shoal Depth reported north-westward of.*

No. 236 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1118 of 1919), are republished:—

*Position on charts.*—At a distance of about  $7\frac{1}{2}$  miles north-westward of Ashrafi reef light.

Lat.  $27^{\circ} 52' N.$ , long.  $33^{\circ} 36' E.$

*Description.*—A 7-fathom shoal, which had not been examined.

*Remarks.*—A reliable search for this reported shoal has failed to reveal any trace of its existence; the shoal is to be expunged from the charts.

*Charts affected.*—No. 2838, Strait of Jubal.

„ 757, Gulf of Suez.

„ 8a, Red sea—sheet I.

„ 2523, Red sea.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 107; Revised Supplement (3), 1917.

*Authority.*—H. M. Surveying vessel *Merlin*, Hyd. Note No. 2 of 1919. (H. 2257/19.)

#### KOREA, EAST COAST.

*Won San Chin (Gensan Bay)—Light-Buoy established in place of Buoy.*

No. 237 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1123 of 1919), are republished:—

*Position.*—At a distance of about  $4\frac{1}{2}$  cables south-eastward from Chotoku To light-house, in the position formerly occupied by the black and red horizontally striped conical buoy with spherical topmark, which has been withdrawn.

Lat.  $39^{\circ} 10' N.$ , long.  $127^{\circ} 26' E.$



*Description.*—A spherical light-buoy painted in black and red horizontal stripes, exhibiting a *flashing white light every three seconds*.

*Chart affected.*—No. 54, Plans of Port Lazaref and Yung hing bay, and Won san chin.

*Publication.*—E. C. Korea, &c., Pilot, 1913, page 104.

*Authority.*—Chosen Notice No. 58 of 1919. (H. 3993/19.)

#### RED SEA—EASTERN SHORE.

*Hassani Island—Correction to Chart with regard to Shoal southward of.*

*No. 238 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1127 of 1919), are republished :—

*Position (approximate).*—Lat.  $24^{\circ} 49' 00''$  N., long.  $37^{\circ} 03' 18''$  E.

*Details.*—The coral shoal with a depth of less than 6 feet, reported in the above position in the year 1915, is not shown on some copies of chart No. 1109 and is to be inserted.

*Chart affected.*—No. 1109, Hassani island.

*Authority.*—Hydrographic Department. (H. 6058/19.)

#### INDIAN OCEAN—MALDIVE ISLANDS.

*Ihavandiffulu Atoll—Existence of Wreck.*

*No. 239 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 54M. of 1919), are republished :—

*Details.*—The Master of S.S. *Warmaid* reports having seen on 19th June 1919 the wreck of a steamer, having a thin black funnel and two masts, lying high up on the reef at the north-west corner of Ihavandiffulu Atoll; the wreck appears to be rounding the point, to ships approaching from the eastward.

*Position.*—South side of the eight degree channel, at a distance of about 11 cables,  $80^{\circ}$  (N.  $82^{\circ}$  E. Mag.) from the centre of Waganu Island. Lat.  $7^{\circ} 6'$  N., long.  $72^{\circ} 53'$  E.

*Variation.*— $2^{\circ}$  W.

*Charts affected.*—No. 66a, Maldive Island, Northern portion.

„ 827, Vengurla to Cape Comorin.

„ 748b, Indian Ocean, Northern portion.

*Publication.*—West Coast of India Pilot, 1909, page 374.

*Authority.*—The Port Officer, Aden, dated 3rd July 1919.

*The 21st July 1919.*

#### BORNEO, EAST COAST—TARAKAN ISLAND.

*Linkas and Approaches—Light-Buoys established ; Amendments to Charts.*

*No. 225 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1064 of 1919), are republished :—

*Former Notice.*—No. 752 of 1919. (This Office No. 157 of 1919.)

*Position.*—Linkas, lat.  $3^{\circ} 17\frac{1}{2}'$  N., long.  $117^{\circ} 35\frac{1}{2}'$  E.



APPENDIX TO THE CALCUTTA GAZETTE, AUGUST 13, 1919. 405

*Position.*—Lat.  $38^{\circ} 28' S.$ , long.  $144^{\circ} 06\frac{1}{2}' E.$  on Chart No. 1695b.

*Details.*—The Fixed Red Light with White Sectors will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing White Light with Red Sectors, showing four flashes in quick succession every twelve seconds, thus:—

Flash	Eclipse	Flash	Eclipse	Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$7\frac{1}{2}$ secs.

*Sectors.*—Red from  $233^{\circ}$  (S.  $45^{\circ}$  W. Mag.) to  $249^{\circ}$  (S.  $61^{\circ}$  W. Mag.); White from  $249^{\circ}$  (S.  $61^{\circ}$  W. Mag.) to  $39^{\circ}$  (N.  $31^{\circ}$  E. Mag.); Red from  $39^{\circ}$  (N.  $31^{\circ}$  E. Mag.) to  $48^{\circ}$  (N.  $40^{\circ}$  E. Mag.); obscured elsewhere.

*Visibility.*—White, 20 miles. Red, 9 miles.

*Power.*—White, 7,000 candles. Red, 3,000 candles.

*Auxiliary Light.*—The Auxiliary Fixed White Light will be discontinued, on or about 1st October 1919.

*Remarks.*—The light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1695b, Bass Strait, Western sheet.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2413.

Australia Pilot, Vol II, 1918, page 82.

*Authority.*—Melbourne Notice No. 5 of 1919.

W. K. THYNE, COMDR., R.I.M.,  
Deputy Port Officer of Calcutta.



*Details.*—The accompanying reproduction of a portion of chart No. 3577 shows the following :—

- (a) The position and description of three light-buoys recently established off Linkas.
- (b) Amendments to the chart with regard to shoals.
- (c) Amended position of Linkas oil jetty.

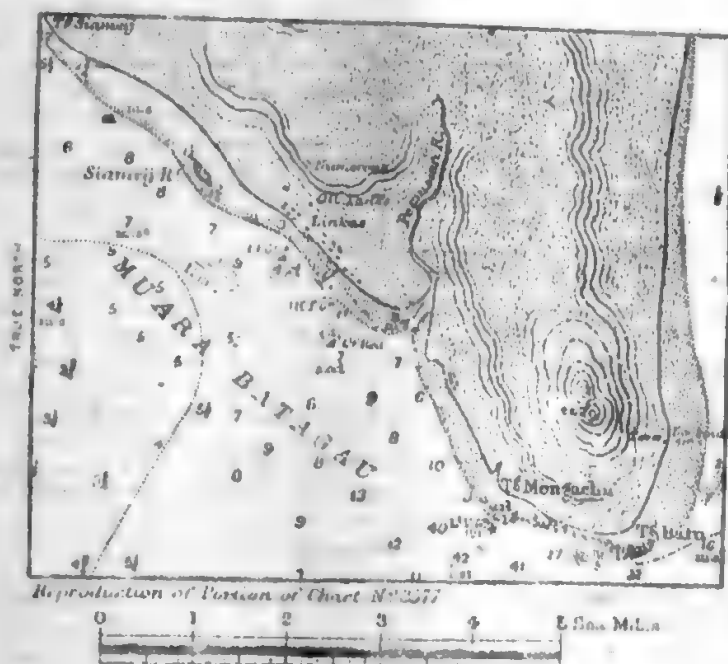
*Charts affected.*—No. 3577, Sesajap and Bulungan rivers.

„ 2636, North part of the Strait of Makassar.

„ 2576, Sulu archipelago and north-east coast of Borneo.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, pages 440, 441, 443 ; Revised Supplement (2), 1918.

*Authority.*—Hague Notice No. 956 of 1919. (H. 3629/19.)



#### JAVA, NORTH COAST—BATAVIA ROADS.

*Tanjong Priok Approach*—Light-Buoy established in place of Buoy.

*No. 226 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1066 of 1919), are republished :—

*Position.*—At a distance of  $6\frac{1}{2}$  cables,  $60^\circ$  (N.  $60^\circ$  E. Mag), from the light on the Eastern breakwater at Tanjong Priok harbour, in the position formerly occupied by the red can buoy which it replaces.

Lat.  $6^\circ 04' S.$ , long.  $106^\circ 53' E.$

*Description.*—A light-buoy painted red, exhibiting a fixed green light.

*Variation.*—Nil.

*Chart affected.*—No. 933, Batavia roads.



*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 91; Supplement, 1918.

*Authority.*—Hague Notice No. 919 of 1919. (H. 3679/19.)

#### JAPAN—SHIMONOSEKI KO.

*Koshiki Se*—Non-Existence of Shoal north-eastward of.

*No. 227 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1068 of 1919), are republished :—

*Position.*—At a distance of about 4 cables north-eastward of Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{4}'$  N., long.  $130^{\circ} 56'$  E.

*Details.*—The shoal about half a cable in extent, shown on the chart in the above vicinity as having depths of from 2 to  $2\frac{1}{2}$  fathoms, does not exist and is to be erased; the under-mentioned depths are to be substituted :—

Distance and bearing from Ganryu jima lighthouse.	Depth.
(a) 4 cables, $24^{\circ}$ (N. $29^{\circ}$ E. Mag.)	... 54 fathoms.
(b) 4 " " $21^{\circ}$ (N. $26^{\circ}$ E. Mag.)	... 54 " "

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

" 1578, Shimonoseki kaikyo.

" 532, Approach to Shimonoseki kaikyo

*Publication.*—Japan Pilot, 1914, page 570.

*Authority.*—Japanese Government Chart. (H. 3802/19.)

#### JAPAN—INLAND SEA, SUWO NADA.

*Ube No Misaki*—Wreck southward of.

*No. 228 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1071 of 1919), are republished :—

*Position (approximate).*—At a distance of about 5 miles southward of Ube no misaki..

Lat  $33^{\circ} 50' 45''$  N., long.  $131^{\circ} 16' 33''$  E.

*Description.*—Sunken wreck of the sailing vessel *Daini Nunobiki Maru*.

*Remarks.*—The vessel is marked with a pole displaying flag "B" International Code.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

" 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 53 of 1919. (H. 3847/19.)



JAPAN—INLAND SEA.

*Mihara Seto and Onomichi Seto Approaches—Existence of Rocks.*

No. 229 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1072 of 1919), are republished:—

Position.		Depth.	Name.
Lat.	Long.		
(a) 34° 20' 39" N., 133° 11' 04" E.	-	5½ fathoms	Akane.
(b) 34° 20' 57" N., 133° 10' 40" E.	-	6	Matsui Dashi.
(c) 34° 21' 38" N., 133° 08' 39" E.	-	3	Hikozaki no iso.
(d) 34° 21' 55" N., 133° 08' 50" E.	-	2	Shinakano iso.
(e) 34° 24' 04" N., 133° 11' 15" E.	-	1	Kanazaki no ishi.
(f) 34° 23' 33" N., 133° 14' 00" E.	-	2½	Takomadowa.
(g) 34° 22' 02" N., 133° 13' 49" E.	-	2½	Okino Takadowa.
(h) 34° 11' 06" N., 133° 00' 40" E.	-	4	Kabura Dashi.

Note.—With reference to rock (g), the depth of 2½ fathoms is to be substituted for 3½ fathoms hitherto shown on the charts.

Charts affected.—No. 3325, Channels between Neko seto and Mekari seto.

„ 83, Gogo shima to Miyo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

Publication.—Japan Pilot, 1914, pages 333, 341, 342, 350

Authority.—Tokyo Notices Nos. 35 to 38 of 1919. (H. 3640/19.)

NEW GUINEA, NORTH COAST.

*Wandamen Bay Approach—Increased Depth on Shoal.*

No. 230 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1075 of 1919), are republished:—

Position.—At a distance of about 6½ miles north-eastward from the northern extremity of Ron island.

Lat. 2° 13' S., long. 134° 28½' E.

Details.—A least depth of 6 fathoms has been found to exist on the reef situated in the above position, instead of a depth of 3 fathoms as hitherto shown on the charts.

Charts affected.—No. 912b, Eastern Archipelago—sheet IV.

„ 2759a, Australia—northern portion.

Publication.—Pacific Islands Pilot, Vol. I, 1908, page 236.

Authority.—Hague Notice No. 1086 of 1919. (H. 3909/19.)

INDIA, WEST COAST.

*Kannamur Anchorage—Buoy permanently laid.*

No. 231 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 53M. of 1919), are republished:—

Former Notice No. 29M. of 1919. (This office No. 131 of 1919.)

Details.—The small dome-shaped red buoy referred to in the above Notice will not be withdrawn annually for the South-West Monsoon.



*Charts affected.*—No. 1322, Anchorage on the West Coast of India.  
 „ 747, West Coast of India, Sheet X.

*Authority.*—The Presidency Port Officer, Madras, dated 22nd May 1919.

# AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Point Lonsdale Light—Intended alteration in character.*

*No. 232 (third publication).—*

*Subject.*—The Occulting Light with White and Red Sectors on Point Lonsdale will be replaced by a Group Flashing Light with White and Red Sectors, on or about 15th September 1919.

*Position.*—On the West side of entrance to Port Phillip.

Lat.  $38^{\circ} 17\frac{1}{4}'$  S., long.  $144^{\circ} 36\frac{1}{2}'$  E. on Chart No. 1171.

*Details.*—The Occulting Light every fifteen seconds, with White and Red Sectors, will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing Light with White and Red Sectors, showing two flashes in quick succession every six seconds, thus:—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$\frac{1}{2}$ sec.

*Power.*—White, 4,000 candles. Red, 1,500 candles.

*Remarks.*—The light will be unwatched, but the Signal Station will be continued as heretofore. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 2747, Entrance to Port Phillip.

„ 1171, Port Phillip.

„ 1695b, Bass Strait, Western sheet.

„ 3169, Port Phillip to Gabo Island.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919. No. 2418.

Australia Pilot, Vol II, 1918, page 87.

*Authority.*—Melbourne Notice No. 4 of 1919.

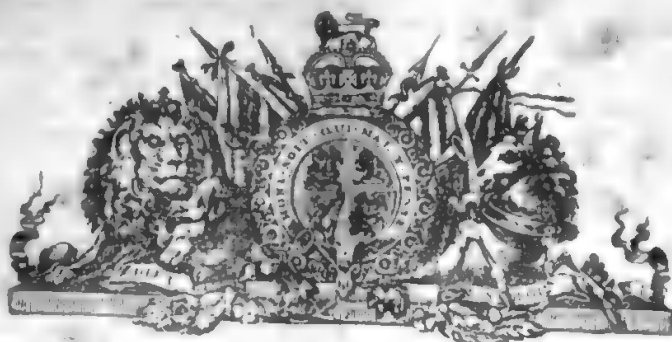
# AUSTRALIA, SOUTH COAST—BASS STRAIT.

*Eagle Nest Point (Split Point)—Intended alteration in character—  
 Auxiliary White Light to be discontinued.*

*No. 233 (third publication).—*

*Subject.*—The Fixed Red Light with White Sectors on Eagle Nest Point (Split Point) will be replaced by a Group Flashing White Light with Red Sectors; and further, that the Auxiliary White Light will be discontinued, on or about 1st October 1919.





# The Calcutta Gazette

WEDNESDAY, AUGUST 20, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 12th August 1919.

#### BAY OF BENGAL—ANDAMAN ISLANDS.

##### *Table Island—Existence of a Rock off.*

*No. 242 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 56-M. of 1919), are republished :—

*Position.*—At a distance of about  $7\frac{1}{2}$  cables  $95^{\circ}$  (S.  $85^{\circ}$  E. Mag.) from Table Island Light-house :

— Lat.  $14^{\circ} 10' 57''$  N.  
Long.  $93^{\circ} 23' 13''$  E.

*Description.*—An uncharted rock with a depth of 2 fathoms over it.

*Variation.*—Nil.

*Charts affected.*—No. 825, Andaman Islands.

„ 3103, North Part of North Andaman Island.

„ 830, Bassein River to Pulo Penang.

„ 70, Bay of Bengal.

*Publication.*—Bay of Bengal Pilot, 1910, page 440.

*Authority.*—The Commanding Officer, R. I. M. S. “Mayo”, dated 30th June 1919.

#### AUSTRALIA—TORRES STRAIT, WESTERN APPROACH.

##### *Merkara shoal—Establishment of Light-Vessel postponed.*

*No. 243 (first publication).*—With reference to Notice to Mariners No. 184 of 1919 issued by this office, the Comptroller-General of Customs, Melbourne, has given further Notice, No. 6 of 1919, that the proposed establishment of a light-vessel in the Western Approach to Torres Strait (Merkara Shoal) is postponed until further notice.



## AUSTRALIA, SOUTH-WEST COAST.

No. 244 (first publication).—

*Cape Naturaliste.*—*Light to be temporarily extinguished.*  
*Provisional light to be established.*

*Subject.*—The group flashing white light on Cape Naturaliste will be temporarily extinguished and a group flashing white light of low power, having the undermentioned characteristics, will be exhibited in its place from about 15th October 1919 to 15th November 1919.

*Position.*—Lat.  $33^{\circ} 32' S$ , long.  $115^{\circ} 02' E$ .

*Details.*—Provisional light to be exhibited from existing lantern.

*Character.*—Group flashing white light, showing two flashes in quick succession every six seconds, thus:—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$4\frac{1}{2}$ secs.

*Power.*—1,500 candles.

*Visibility.*—10 miles.

*Remarks.*—The existing light will be extinguished from about 15th October 1919 to 15th November 1919, pending repairs to the apparatus. During the interval the provisional light described above will be exhibited from the existing lantern.

*Note.*—No further notice will be given.

*Charts temporarily affected.*—No. 1034, Cape Naturaliste to King George Sound, with plan.  
 „ 1033, Champion Bay to Cape Naturaliste.  
 „ 2759b, Australia, Southern portion.  
 „ 748a, Indian Ocean, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2283.

Australia Pilot, Vol. V, 1914, page 397.

*Authority.*—Melbourne Notice No. 7 of 1919.

## AUSTRALIA, EAST COAST.

No. 245 (first publication).—

*Tacking Point Light.*—*Intended alteration in Character.*  
*Signal station to be discontinued.*

*Subject.*—The Fixed White Light on Tacking Point will be replaced by a Group Flashing White Light, and further, that the Signal Station will be discontinued, on or about 31st October 1919.

*Position.*—Near extreme of Point.

Lat.  $31^{\circ} 28\frac{1}{2}' S$ , long.  $152^{\circ} 57\frac{1}{2}' E$ , on Chart No. 1025.

*Details.*—The Fixed White Light will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group flashing White Light, showing four flashes in quick succession every twelve seconds, thus:—

Flash	Eclipse	Flash	Eclipse	Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$7\frac{1}{2}$ secs.

*Visibility.*—12 miles.

*Power.*—1,500 candles.



*Remarks.*—The light will be unwatched.

The signal station will be discontinued, and the Light-keeper withdrawn.

The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1024, Port Stevens to Tacking Point.

„ 1025, Tacking Point to Coffs Islands.

„ 3622, Port Jackson to Cape Byron.

„ 2759b, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2575.

Australia Pilot, Vol. III, 1916, page 75.

*Authority.*—Melbourne Notice No. 8 of 1919.

The 7th August 1919.

#### BAY OF BENGAL—ARAKAN COAST.

*Western Approach Cheduba Strait*—Islets washed away leaving Shoals only.

*No. 240 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 55-M. of 1919), are republished:—

Former Admiralty Notice No. 772 of 1919 and R. I. M. Notice No. 102-M. of 1918. (*Calcutta*, No. 387 of 1918.)

*Position (a)*—Lat.  $19^{\circ} 00' N.$ , long.  $93^{\circ} 24\frac{1}{2}' E.$

*Position (b)*—Lat.  $19^{\circ} 24' N.$ , long.  $93^{\circ} 23' E.$

*Details*—The two islets stated in the above Notices to Mariners as existing in the above positions have been washed away, leaving shoals only in lieu, over which the sea breaks heavily in the south-west monsoon.

*Variation*— $1\frac{1}{2}^{\circ} E.$

*Charts affected*—No. 832, Cheduba Strait to Ramree Harbour.

„ 821, Elephant Point to Cheduba Strait.

„ 831, Kyauk Pyu Harbour to Cheduba Strait.

„ 829, Cocanada to Bassein River.

„ 70, Bay of Bengal.

*Publication*—Bay of Bengal Pilot, 1910, page 356.

*Authority*—The Commanding Officer, R. I. M. S. "Mayo", dated 27th June 1919.

#### BAY OF BENGAL—ORISSA COAST.

*Dhamra river*—Extension of Kanika Sand.

*No. 241 (second publication).*—

*Subject.*—The Kanika Sand, Dhamra river, off Shortts island, has extended to the line of E and D buoys.

*Caution.*—Vessels should steer S.  $\frac{1}{2}$  W. Magnetic from E buoy until abreast of D buoy and then haul up for C buoy.

*Charts affected.*—No. 754, Dhamra river.

„ 829, Cocanada to Bassein river.

*Publication.*—Bay of Bengal Pilot, 1910, page 278. Revised Supplement (2), 1917.

*Authority.*—Port Officer, Chandbali, letter No. 522P., dated the 4th August 1919.



*The 28th July 1919.*

CHINA SEA—BERHALA STRAIT.

*Berhala Island—Non-existence of Shoal south-eastward of.*

No. 234 (*third publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1100 of 1919), are republished:—

*Position on charts.*—At a distance of about 19 miles south-eastward from Berhala island.

Lat.  $1^{\circ} 01\frac{1}{2}'$  S., long.  $104^{\circ} 41\frac{1}{2}'$  E.

*Description.*—A  $4\frac{1}{2}$ -fathom shoal, marked "E.D." on charts.

*Remarks.*—An examination of this locality has failed to reveal any trace of this shoal; it is accordingly to be expunged from the charts.

*Charts affected.*—No. 1789, Channels between Sumatra, Linga and Singkep.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago, sheet 1.

„ 1263, China sea.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 294.

*Authority.*—Hague Notice No. 1095 of 1919. (H. 3917/19.)

CELEBES, SOUTH-EAST COAST.

*Gulf of Boni and Approach—Non-existence of Shoals.*

No. 235 (*third publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1103 of 1919), are republished:—

*Positions.*—(a) Pasir Putih reef, situated off the eastern coast of Pulo Salayar, at a distance of about 5 miles eastward from Tanjong Padang.

Lat.  $6^{\circ} 16'$  S., long.  $120^{\circ} 37\frac{1}{2}'$  E.

(b) A reef marked "P.D.," situated off the eastern coast of Pulo Salayar, at a distance of about 3 miles north-eastward from Tanjong Lohea.

Lat.  $6^{\circ} 01\frac{1}{2}'$  S., long.  $120^{\circ} 36'$  E.

(c) Boni rock, situated at a distance of about 22 miles northward from Tanjong Lassa.

Lat.  $5^{\circ} 15\frac{1}{2}'$  S., long.  $120^{\circ} 33'$  E.

*Details.*—Information has been received that the above shoals do not exist and they are to be expunged from the charts.

*Charts affected.*—No. 3616, Tomori gulf to Salayar strait.

„ 941b, Eastern Archipelago, sheet 2.

„ 942a, Eastern Archipelago, sheet 3.

„ 2759a, Australia, northern portion.

„ 1263, China sea.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, pages 453, 454, 459.

*Authority.*—Hague Notice No. 1087 of 1919. (H. 3910/19.)



RED SEA—STRAIT OF JUBAL.

*Ashrafi Islands—Non-existence of Shoal Depth reported north-westward of.*

*No. 236 (third publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1118 of 1919), are republished:—

*Position on charts.*—At a distance of about 7½ miles north-westward of Ashrafi reef light.

Lat. 27° 52½' N., long. 33° 36½' E.

*Description.*—A 7-fathom shoal, which had not been examined.

*Remarks.*—A reliable search for this reported shoal has failed to reveal any trace of its existence; the shoal is to be expunged from the charts.

*Charts affected.*—No. 2838, Strait of Jubal.

„ 757, Gulf of Suez.

„ 8a, Red sea—sheet I.

„ 2523, Red sea.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 107; Revised Supplement (3), 1917.

*Authority.*—H. M. Surveying vessel *Merlin*, Hyd. Note No. 2 of 1919. (H. 2257/19.)

KOREA, EAST COAST.

*Won San Chin (Gensan Bay)—Light-Buoy established in place of Buoy.*

*No. 237 (third publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1123 of 1919), are republished:—

*Position.*—At a distance of about 4½ cables south-eastward from Chotoku To light-house, in the position formerly occupied by the black and red horizontally striped conical buoy with spherical topmark, which has been withdrawn.

Lat. 39° 10½' N., long. 127° 26½' E.

*Description.*—A spherical light-buoy painted in black and red horizontal stripes, exhibiting a *flashing white* light every three seconds.

*Chart affected.*—No. 54, Plans of Port Lazaref and Yung hing bay, and Won san chin.

*Publication.*—E. C. Korea, &c., Pilot, 1913, page 104.

*Authority.*—Chosen Notice No. 58 of 1919. (H. 3993/19.)

RED SEA—EASTERN SHORE.

*Hassani Island—Correction to Chart with regard to Shoal southward of.*

*No. 238 (third publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1127 of 1919), are republished:—

*Position (approximate).*—Lat. 24° 49' 00" N., long. 37° 03' 8" E.

*Details.*—The coral shoal with a depth of less than 6 feet, reported in the above position in the year 1915, is not shown on some copies of chart No. 1109 and is to be inserted.

*Chart affected.*—No. 1109, Hassani island.

*Authority.*—Hydrographic Department. (H. 6058/19.)



INDIAN OCEAN—MALDIVE ISLANDS.

*Ihavandiffulu Atoll—Existence of Wreck.*

No. 239 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 54M. of 1919), are republished.—

*Details.*—The Master of S.S. *Warmaid* reports having seen on 19th June 1919 the wreck of a steamer, having a thin black funnel and two masts, lying high up on the reef at the north-west corner of Ihavandiffulu Atoll; the wreck appears to be rounding the point to ships approaching from the eastward.

*Position.*—South side of the eight degree channel, at a distance of about 11 cables,  $80^{\circ}$  (N.  $82^{\circ}$  E. Mag.) from the centre of Waganu Island. Lat.  $7^{\circ} 6' N.$ , long.  $72^{\circ} 53' E.$

*Variation.*— $2^{\circ} W.$

*Charts affected.*—No. 66a, Maldive Island, Northern portion.  
„ 827. Vengurla to Cape Comorin.  
„ 748b, Indian Ocean, Northern portion.

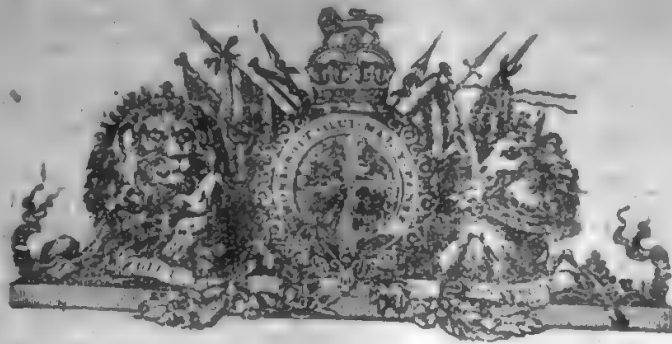
*Publication.*—West Coast of India Pilot, 1909, page 374.

*Authority.*—The Port Officer, Aden, dated 3rd July 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, AUGUST 27, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 19th August 1919.

#### AUSTRALIA—SOUTH COAST, SPENCER GULF.

*Point Lowly Light.*—*Light to be temporarily extinguished.*  
*Provisional light to be established.*

No. 246 (first publication).—

*Subject.*—The flashing white light with red sector on Point Lowly will be temporarily extinguished, and a provisional flashing white light of low power, having the undermentioned characteristics, will be exhibited in its place, from about 2nd October 1919 to about 22nd October 1919.

*Position.*—Lat.  $33^{\circ} 00' S.$ , long.  $137^{\circ} 47' E.$

*Details.*—Provisional light to be exhibited from existing tower.

*Character.*—*Flashing white light*, showing one flash every twelve and-a-half seconds, thus:—

Flash	Eclipse
$2\frac{1}{2}$ secs.	10 secs.

*Remarks.*—The existing light will be extinguished from about 2nd October 1919 to about 22nd October 1919, pending repairs to the apparatus. During the interval, the provisional light described above will be exhibited from the existing tower.



The red sector shown at present from the existing light will be omitted from the provisional light, which will show white to seaward.

*Note.*—No further notice will be given.

*Charts temporarily affected.*—No. 403, Wood Point to Lowly Point.  
 „ 401, Approach to Port Augusta.  
 „ 2389, St. Vincent and Spencer Gulfs.  
 „ 27596, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2338.

Australia Pilot, Vol. I, 1918, page 238.

*Authority.*—Melbourne notice No. 9 of 1919.

*The 12th August 1919.*

#### BAY OF BENGAL—ANDAMAN ISLANDS.

##### *Table Island—Existence of a Rock off.*

*No. 242 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 56-M. of 1919), are republished :—

*Position.*—At a distance of about 7½ cables 95° (S. 85° E. Mag.) from Table Island Light-house :

Lat. 14° 10' 57" N.

Long. 93° 23' 13" E.

*Description.*—An uncharted rock with a depth of 2 fathoms over it.

*Variation.*—Nil.

*Charts affected.*—No. 825, Andaman Islands.

„ 3103, North Part of North Andaman Island.

„ 830, Bassein River to Pulo Penang.

„ 70, Bay of Bengal.

*Publication.*—Bay of Bengal Pilot, 1910, page 440.

*Authority.*—The Commanding Officer, R. I. M. S. "Mayo", dated 30th June 1919.

#### AUSTRALIA—TORRES STRAIT, WESTERN APPROACH.

##### *Merkara shoal—Establishment of Light-Vessel postponed.*

*No. 243 (second publication).*—With reference to Notice to Mariners No. 184 of 1919 issued by this office, the Comptroller-General of Customs, Melbourne, has given further Notice, No. 6 of 1919, that the proposed establishment of a light-vessel in the Western Approach to Torres Strait (Merkara Shoal) is postponed until further notice.

#### AUSTRALIA, SOUTH-WEST COAST.

*No. 244 (second publication).*—

*Cape Naturaliste.*—*Light to be temporarily extinguished.*  
*Provisional light to be established.*

*Subject.*—The group flashing white light on Cape Naturaliste will be temporarily extinguished and a group flashing white light of low power, having the undermentioned characteristics, will be exhibited in its place from about 15th October 1919 to 15th November 1919.



*Position.*—Lat.  $33^{\circ} 32'$  S., long.  $115^{\circ} 02'$  E.

*Details.*—Provisional light to be exhibited from existing lantern.

*Character.*—Group flashing white light, showing two flashes in quick succession every six seconds, thus:—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$4\frac{1}{2}$ secs.

*Power.*—1,500 candles.

*Visibility.*—10 miles.

*Remarks.*—The existing light will be extinguished from about 15th October 1919 to 15th November 1919, pending repairs to the apparatus. During the interval the provisional light described above will be exhibited from the existing lantern.

*Note.*—No further notice will be given.

*Charts temporarily affected.*—No. 1034, Cape Naturaliste to King George Sound, with plan.  
 „ 1033, Champion Bay to Cape Naturaliste.  
 „ 2759b, Australia, Southern portion.  
 „ 748a, Indian Ocean, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2283.

Australia Pilot, Vol. V, 1914, page 397.

*Authority.*—Melbourne Notice No. 7 of 1919.

#### AUSTRALIA, EAST COAST.

*No. 245 (second publication).*—

*Tacking Point Light.*—*Intended alteration in Character.*  
*Signal station to be discontinued.*

*Subject.*—The Fixed White Light on Tacking Point will be replaced by a Group Flashing White Light, and further, that the Signal Station will be discontinued, on or about 31st October 1919.

*Position.*—Near extreme of Point.

Lat.  $31^{\circ} 28\frac{1}{2}'$  S., long.  $152^{\circ} 57\frac{1}{2}'$  E., on Chart No. 1025.

*Details.*—The Fixed White Light will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group flashing White Light, showing four flashes in quick succession every twelve seconds, thus:—

Flash	Eclipse	Flash	Eclipse	Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$7\frac{1}{2}$ secs.

*Visibility.*—12 miles.

*Power.*—1,500 candles.

*Remarks.*—The light will be unwatched.

The signal station will be discontinued, and the Light-keeper withdrawn.

The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1024, Port Stevens to Tacking Point.

„ 1025, Tacking Point to Coffs Islands.

„ 3622, Port Jackson to Cape Byron.

„ 2759b, Australia, Southern portion.



*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2575.

Australia Pilot, Vol. III, 1916, page 75.

*Authority.*—Melbourne Notice No. 8 of 1919.

*The 7th August 1919.*

# BAY OF BENGAL—ARAKAN COAST.

*Western Approach Cheduba Strait—Islets washed away leaving Shoals only.*

*No. 240 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 55-M. of 1919), are republished :—

Former Admiralty Notice No. 772 of 1919 and R. I. M. Notice No. 102-M. of 1918. (*Calcutta, No. 387 of 1918.*)

*Position (a)*—Lat. 19° 00' N., long. 93° 24½' E.

*Position (b)*—Lat. 19° 2½' N., long. 93° 23' E.

*Details*—The two islets stated in the above Notices to Mariners as existing in the above positions have been washed away, leaving shoals only in lieu, over which the sea breaks heavily in the south-west monsoon.

*Variation*—1½° E.

*Charts affected*—No. 832, Cheduba Strait to Ramree Harbour.

„ 821, Elephant Point to Cheduba Strait.

„ 831, Kyank Pyu Harbour to Cheduba Strait.

„ 829, Cocanada to Bassein River.

„ 70, Bay of Bengal.

*Publication*—Bay of Bengal Pilot, 1910, page 356.

*Authority*—The Commanding Officer, R. I. M. S. “Mayo”, dated 27th June 1919.

# BAY OF BENGAL—ORISSA COAST.

*Dhamra river—Extension of Kanika Sand.*

*No. 241 (third publication).*—

*Subject.*—The Kanika Sand, Dhamra river, off Shortts island, has extended to the line of E and D buoys.

*Caution.*—Vessels should steer S. ½ W. Magnetic from E buoy until abreast of D buoy and then haul up for C buoy.

*Charts affected.*—No. 754, Dhamra river.

„ 829, Cocanada to Bassein river.

*Publication.*—Bay of Bengal Pilot, 1910, page 278. Revised Supplement (2), 1917.

*Authority.*—Port Officer, Chandballi, letter No. 522P., dated the 4th August 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 8, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 25th August 1919.

#### CHINA, EAST COAST—YANG TSE KIANG.

##### *Silver Island Crossing Light-Beacon—Alteration in Position.*

No. 247 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1139 of 1919), are republished:—

*New position.*—At a distance of 171 yards,  $324^{\circ}$  (N.  $33^{\circ}$  W. Mag.), from position shown on charts and  $15^{\circ}$  (N.  $18^{\circ}$  E. Mag.) from the flagstaff at Tu Tien Miao fort.

Lat.  $32^{\circ} 15\frac{1}{2}'$  N., long.  $119^{\circ} 29\frac{1}{2}'$  E.

*New abridged description.*—Lt. F., 50 ft.

*Description.*—A fixed white light.

*Remarks.*—The elevation of the light is 50 feet instead of 30 feet as formerly.

*Variation.*— $3^{\circ}$  W.

*Charts affected.*—No. 1288, Plans of Chin kiang fu and Silver island; and Se Yun kau creek to Silver island.

„ 2809, Yang tse kiang—sheet 1.: Shanghai to Nanking.

*Publication.*—Yangtse kiang Pilot, 1914, page 53.

*Authority.*—Yangtse River Series Notice No. 370 of 1919. (H. 1968/19.)



## CHINA SEA—CARIMATA STRAIT.

*Billiton Island, East Coast—Discoloured Water reported.*

*No. 248 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1143 of 1919), are republished:—

*Position.*—At a distance of about 2 miles south-eastward of Mempirak.

Lat.  $2^{\circ} 43' 45''$  S., long.  $108^{\circ} 27' 50''$  E.

*Details.*—Discoloured water was observed in the above position.

*Note.*—The position on the chart is to be encircled by a danger line and marked "*Discoloured water repd. (1919).*"

*Chart affected.*—No. 2160, Carimata strait.

*Publication.*—China Sea Pilot, Vol. II., 1915, page 209; Revised Supplement (2), 1919.

*Authority.*—Hague Notice No. 1080 of 1919. (*H.* 3903/19.)

## CHINA, EAST COAST.

*Yangtse Kiang—Lights to be erased from certain Charts.*

*No. 249 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1147 of 1919), are republished:—

Owing to the frequent alterations in lights necessitated by the constant changes in the channels it has been decided in future to omit the lights in the Yangtse Kiang on Admiralty charts Nos. 2678, 2695 and 2849; the lights are therefore to be expunged and the note "*and the lights are not shown*" is to be added to the cautionary note in the title of these charts.

Attention is also drawn to the cautionary note in the Admiralty List of Lights.

*Note.*—A new edition of these charts will shortly be issued with the lights omitted in accordance with the above.

*Publications.*—List of Lights, Part VI, 1919, pages 201, 202.

Yangtse Kiang Pilot, 1914, page 17.

*Authority.*—Hydrographic Department. (*H.* 4701/19.)

## SUMATRA, EAST COAST—BANKA ISLAND.

*Klabat Bay Approach—Shoal reported.*

*No. 250 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1153 of 1919), are republished:—

*Position.*—At a distance of about  $6\frac{1}{2}$  miles north-westward from Penyasu island lighthouse.

Lat.  $1^{\circ} 28' 52''$  S., long.  $105^{\circ} 35' 47''$  E.

*Depth.*—About 3 fathoms.

*Note.*—The shoal is to be marked "*Repd. (1919)*" on the charts.

*Charts affected.*—No. 2597, Banka strait.

„ 2149, Banka and Gaspar straits.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago—sheet 3.

„ 1263, China sea.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 130.

*Authority.*—Hague Notice No. 1079 of 1919. (*H.* 3902/19.)



SUMATRA, WEST COAST.

*Benkulen—Non-existence of Reef reported north-westward of.*

No. 251 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1155 of 1919), are republished :—

*Former Notice.*—No. 1187 of 1918. (*This office No. 379 of 1918.*)

*Position on chart.*—At a distance of about 38 miles north-westward from Benkulen.

Lat.  $3^{\circ} 29' S.$ , long.  $101^{\circ} 42' E.$

*Description.*—A reef, shown on charts as having a depth of less than 6 feet.

*Remarks.*—A careful search has failed to reveal any trace of the existence of the reef reported in the above position in the former Notice. The reef is to be expunged from the charts accordingly.

*Charts affected.*—No. 2761, Chinguk bay to the Strait of Sunda.  
„ 7486, Indian ocean—northern portion.

*Publication.*—China Sea Pilot. Vol. I, 1916, page 394.

*Authority.*—Hague Notice No. 1194 of 1919. (*H. 4284/19.*)

INDIA—BAY OF BENGAL.

*River Hugli—Amendments to Charts with regard to Aids to Navigation.*

No. 252 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1158 of 1919), are republished :—

1. Amended arc of visibility of Sagar island light :

*Position.*—Sagar island lighthouse, lat.  $21^{\circ} 39' N.$ , long.  $88^{\circ} 02' E.$

*Details.*—The light is visible from  $315^{\circ}$  (*N.  $45^{\circ}$  W. Mag.*) through north to  $166^{\circ}$  (*S.  $14^{\circ}$  E Mag.*).

2. Amended period of light of Middleton light-vessel :

*Position.*—At a distance of about  $3\frac{1}{2}$  miles southward of Sagar island lighthouse.

*New abridged description.*—Lt. Occ., ev. 10 sec., 30 ft., vis. 10 m. (U).

*Details.*—The period of this occulting white light is ten seconds thus :—

Light,	eclipse.
6 secs.	4 secs.

3. Light-buoy "L. S. Stn." replaced by buoy :

*Position.*—At a distance of about  $6\frac{1}{2}$  miles southward of Sagar island lighthouse.

*Details.*—Light-buoy "L. S. Stn.", with group flashing white light has been replaced by a black can unlighted buoy.

4. Alteration in light on light-buoy "G" :

*Position.*—South-eastward of Eagle sand, and at a distance of about 9 miles westward of Sagar island lighthouse.



*Details.*—The group occulting white light on the black can light-buoy "G" has been replaced by an occulting white light every eight seconds, thus :—

Light.	eclipse.
4 secs.	4 secs.

*Variation.*—Nil.

*Charts affected.*—No. 136, River Hugli—Sagar Point to Calcutta.

„ 814, The Sandheads—False point to Matla river.

*Publications.*—List of Lights, Part VI, 1919, Nos. 614, 615.

Bay of Bengal Pilot, 1910, page 300.

*Authority.*—Director of the Royal Indian Marine. (H. 1099/19).

#### JAPAN—HOKUSHŪ.

*Otaru Ko*—Light discontinued.

No. 253 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1163 of 1919), are republished :—

*Position.*—On North breakwater.

Lat.  $43^{\circ} 12' N.$ , long.  $141^{\circ} 01' E.$

*Description.*—A fixed red light.

*Note.*—The light has been discontinued and is to be expunged from the charts.

*Remarks.*—The fixed green light on the South breakwater has an elevation of 29 feet and is visible 5 miles. The abridged description on the charts is to be amended accordingly.

*Charts affected.*—No. 993, Plan of Otaru ko.

„ 2981, Furubira wan to Aikappu misaki.

„ 452, Hokushū island.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2130 and 2131.

Japan Pilot, 1914, page 696 ; Revised Supplement (2), 1919.

*Authority.*—Department of Communications, Tokyo, Notices Nos. 505, 506 of 1919. (H. 4145/19.)

#### CHINA SEA—BILLITON ISLAND, EAST COAST.

*Burok Point*—Shoal reported eastward of.

No. 254 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1165 of 1919), are republished :—

*Position.*—At a distance of about 3 miles eastward from Burok point.

Lat.  $2^{\circ} 46' 50'' S.$ , long.  $108^{\circ} 20' 20'' E.$ , on chart No. 2160.

*Depth.*—One fathom, coral.

*Remarks.*—The symbol for a rock with a depth of less than 6 feet, marked "*Repd.* (1919)", is to be placed on the charts in this position.

*Charts affected.*—No. 2160, Carimata strait.

„ 941a, Eastern Archipelago—sheet 1.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 199.

*Authority.*—Hague Notice No. 1196 of 1919. (H. 4286/19.)



RED SEA—EASTERN SHORE.

*Hodeida Roads—Existence of Rock.*

No. 255 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1175 of 1919), are republished:—

*Position (approximate).*—At a distance of  $18\frac{1}{2}$  cables,  $267^{\circ}$  (*S.  $87^{\circ}$  W. Mag.*), from the round minaret with tall spire situated north-westward of the large stone house at Hodeida.  
Lat.  $14^{\circ} 47'$  N., long.  $42^{\circ} 54'$  E.

*Depth.*—7 feet (coral).

*Remarks.*—This rock is not shown on the plan of Hodeida road on certain copies of chart No. 14, which are to be corrected accordingly.

*Variation.*—Nil.

*Chart affected.*—No. 14, Plan of Hodeida road.

*Publication.*—Red Sea, &c., Pilot, 1909, page 389; Revised Supplement (3), 1917.

*Authority.*—Hydrographic Department. (*H. 4417/19.*)

JAPAN—KIUSIU. NORTH COAST.

*Fukuoka Wan—Rock reported.*

No. 256 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1180 of 1919), are republished:—

*Position.*—At a distance of  $5\frac{6}{10}$  cables,  $273^{\circ}$  (*N.  $83^{\circ}$  W. Mag.*) from 504-foot summit of Nokono shima.  
Lat.  $33^{\circ} 37'$  N., long.  $130^{\circ} 17'$  E.

*Details.*—A vessel is reported to have struck a rock in the foregoing position and to have obtained a sounding of 2 fathoms.

*Note.*—A 2-fathom rock is to be inserted on the charts in the position given above.

*Caution.*—Mariners are advised to exercise caution whilst navigating in the above locality, pending further information.

*Variation.*— $4^{\circ}$  W.

*Charts affected.*—No. 3511, Fukuoka wan.

„ 127, Hirado kaikyo to Shimonoseki kaikyo.

*Publication.*—Japan Pilot, 1914, page 537.

*Authority.*—Tokyo Notice No. 98 of 1919. (*H. 4396/19.*)

JAPAN—INLAND SEA, BI-SAN SETO.

*Ogi Jima—Wreck north-eastward of.*

No. 257 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1181 of 1919), are republished:—

*Position.*—At a distance of  $7\frac{1}{2}$  cables,  $60^{\circ}$  (*N.  $65^{\circ}$  E. Mag.*), from Ogi jima lighthouse.  
Lat.  $34^{\circ} 26\frac{1}{2}'$  N., long.  $134^{\circ} 04'$  E.

*Description.*—Sunken wreck of the S.S. *Naoetsu Maru*.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1969, Ozuchi jima to Funoko sima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 93 of 1919. (*H. 4392/19.*)



## CHINA SEA—FORMOSA, NORTH COAST.

*Kiirun Ko, Banjintai Bi Lighthouse—Fog-signal established.*

No. 258 (*first publication*).—The following particulars, etc., relative to the above issued by the British Admiralty (No. 1185 of 1919), are republished :—

*Position*.—Banjintai Bi lighthouse, lat.  $25^{\circ} 09\frac{1}{4}'$  N., long.  $121^{\circ} 44\frac{1}{4}'$  E.

*Description*.—A fog-gun.

*Details*.—When a vessel's fog-signals are heard by the lighthouse-keeper, *three* blank shots will be fired from the fog-gun with an interval of *three minutes* between them. Should the vessel's signals continue to be heard the firing of the gun will be repeated in a similar manner after an interval of *six minutes*.

*Note*.—The note "*Fog-gun (Occasl.)*" is to be placed against this light on the charts.

*Charts affected*.—No. 2618, Kiirun ko.

- „ 3658, Auran road to So o wan.
- „ 1761, Ockseu islands to Tung yung.
- „ 1968, Formosa island and strait.
- „ 2412, Amoy to Nagasaki.
- „ 1262, Hongkong to Gulf of Liau-tung.

*Publications*.—List of Lights, Part VI, 1919, No 1841.  
China Sea Pilot, Vol. V, 1912, page 230.

*Authority*.—Tokyo Notice No. 55 of 1919. (*H. 4027/19.*)

## KOREA—SOUTH-EAST COAST.

*Fusan Harbour—Alterations in Buoyage.*

No. 259 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1186 of 1919), are republished :—

- (a) Pupon Kutsu light-buoy established in place of buoy :

*Position*.—At a distance of 2 cables,  $23^{\circ}$  (*N.  $23^{\circ}$  E. Mag.*), from Uno se lighthouse, and about 80 yards eastward from the position formerly occupied by the red conical buoy with triangular topmark, which has been withdrawn.

Lat.  $35^{\circ} 06\frac{1}{4}'$  N., long.  $129^{\circ} 04'$  E.

*Description*.—A spherical light-buoy painted red, exhibiting a *flashing white light every three seconds*.

- (b) Alteration in description of Kioshi Sho light-buoy :

*Position*.—At a distance of 3 cables,  $167^{\circ}$  (*S.  $8^{\circ}$  E. Mag.*), from Uno se lighthouse.

Lat.  $35^{\circ} 06\frac{1}{4}'$  N., long.  $129^{\circ} 04'$  E.

*New description*.—A spherical light-buoy painted black, exhibiting a *flashing green light every three seconds*.

- (c) Alteration in light on Puppani reef light-buoy :

*Position*.—At the southern extremity of Puppani reef.

Lat.  $35^{\circ} 06\frac{1}{4}'$  N., long.  $129^{\circ} 04\frac{1}{4}'$  E.

*Alteration*.—The flashing green light on this light-buoy has been replaced by a *flashing red light every three seconds*.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 1259, Fusan harbour.

- „ 3666, Fusan harbour to Chukupen bay.
- „ 3366, Fusan harbour to Port Hamilton.

*Publication*.—E. C. Korea, etc., Pilot, 1913, page 77 ; Revised Supplement (2), 1918.

*Authority*.—Chosen Notice No. 59 of 1919. (*H. 3994-19.*)



## NORTH PACIFIC OCEAN—CAROLINE ISLANDS.

*Helen Reef—Non-existence of Reef reported eastward of.*

No. 260 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1201 of 1919), are republished:—

*Position on charts.*—At a distance of about 45 miles eastward of Helen reef.

Lat.  $2^{\circ} 49' N.$ , long.  $132^{\circ} 30' E.$

*Description.*—A reef, marked "P.D. (1889)" on the charts, reported by the British barque *Transit*.

*Remarks.*—A reliable search has failed to reveal any trace of the existence of the above reef; the reef is to be expunged from the charts accordingly.

*Charts affected.*—No. 781, Pacific ocean—north west sheet.

" 2683, Pacific ocean.

" 2483, Atlantic and Indian oceans, etc.

" 2937, Oceanic soundings, Indian and Western Pacific oceans.

*Publication.*—Pacific Islands, Vol. I, 1908, page 422.

*Authority.*—Tokyo Notice No. 90 of 1919. (H. 4391-19.)

## JAPAN—SHIMONOSEKI KAIKYO.

*Shimonoseki Ko—Existence of Wreck.*

No. 261 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1206 of 1919), are republished:—

*Position.*—At a distance of 9 cables,  $37^{\circ}$  (N.  $42^{\circ}$  E. Mag.), from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56' N.$ , long.  $130^{\circ} 56' E.$

*Description.*—Sunken wreck of the sailing vessel *Daiku Shinei Maru* with mast showing about 7 feet above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

" 1578, Shimonoseki kaikyo.

" 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 84 of 1919. (H. 4033/19)

## JAPAN—HONSHU, NORTH-WEST COAST.

*Maizuru Harbour Approach—Obstruction removed.*

No. 262 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1214 of 1919), are republished:—

*Former Notice.*—No. 694 of 1919. (This office No. 143 of 1919.)

*Position.*—Bakuchi misaki 424-foot  $\Delta$ , lat.  $35^{\circ} 33' N.$ , long.  $135^{\circ} 20' E.$

*Details.*—The obstruction, the western end of which was formerly situated at a distance of about  $10\frac{1}{2}$  cables, north-eastward, from Bakuchi misaki 424-foot  $\Delta$ , has been removed.

The obstruction extended in an easterly direction from the above position for a distance of about 135 yards and was marked by buoys and red flags.



*Note.*—The obstruction and the note "Obstruction laid, marked by buoys and red flags (1918)", shown on the charts are to be expunged.

*Charts affected.*—No. 61, Plan of Miyadsu harbour and Port Ine.  
 „ 2174, Amarube zaki to Ando zaki.  
 „ 1495, Aburatani bay to Ando zaki.

*Publication.*—Japan Pilot, 1914, page 620.

*Authority.*—Tokyo Notice No. 108 of 1919. (H. 4780/19.)

#### JAPAN—INLAND SEA.

(1) *Kurushima Kaikyo, Sei Suido—Existence of Rocks.*

(2) *Aki Nada, Kami Kama Gari Shima—Existence of rock (astward of.*

*No. 263 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1241 of 1919), are republished :—

##### (1) *Kurushima Kaikyo, Sei Suido.*

(a) *Position.*—At a distance of  $2\frac{1}{10}$  cables,  $93^{\circ}$  (S.  $82^{\circ}$  E. Mag.), from the 318-ft. summit of Ito Yama.  
 Lat.  $34^{\circ} 06\frac{1}{2}'$  N., long.  $132^{\circ} 58\frac{1}{2}'$  E.

*Depth.*— $3\frac{1}{2}$  fathoms, where  $6\frac{1}{2}$  fathoms was hitherto shown on the chart.

*Remarks.*—This rock is known by the name "Oise no Iwa".

(b) *Position.*—At a distance of  $4\frac{1}{10}$  cables,  $219^{\circ}$  (S.  $44^{\circ}$  W. Mag.), from Usu Bana, the southern extreme of Uma Shima island.  
 Lat.  $34^{\circ} 06\frac{1}{2}'$  N., long.  $132^{\circ} 58\frac{1}{2}'$  E.

*Depth.*—3 fathoms, where  $4\frac{1}{2}$  fathoms was hitherto shown on the chart.

*Remarks.*—This rock is known by the name "Mukuri".

*Note.*—The above positions refer to chart No. 131.

##### (2) *Aki Nada, Kami Kama Gari Shima.*

*Position.*—At a distance of  $1\frac{1}{2}$  cables,  $31^{\circ}$  (N.  $36^{\circ}$  E. Mag.), from the extremity of Mi Saki.

Lat.  $34^{\circ} 11\frac{1}{2}'$  N., long.  $132^{\circ} 45\frac{1}{2}'$  E.

*Details.*—A rock which dries 9 feet at low water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 131, Kurushima no seto.

„ 3325, Channels between Neko seto and Mekari seto.

„ 83, Gogo shima to Miyo shima.

*Publication.*—Japan Pilot, 1914, pages 333, 359.

*Authority.*—Tokyo Notices Nos. 114 and 115 of 1919. (H. 4785/19).

#### JAPAN, INLAND SEA—GULF OF OSAKA.

(1) *Ayashi No Seto—Existence of Wreck.*

(2) *Kobe Approach—Existence of Wreck.*

*No. 264 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1255 of 1919), are republished :—

##### (1) *Ayashi No Seto.*

*Position.*—At a distance of  $3\frac{1}{2}$  cables,  $300^{\circ}$  (N.  $55^{\circ}$  W. Mag.), from Ye Saki lighthouse.

Lat.  $34^{\circ} 36\frac{1}{2}'$  N., long.  $134^{\circ} 59'$  E

*Description.*—Sunken wreck of S.S. *Daini Tosei Maru*.



(2) Kobe Approach.

*Position.*—At a distance of  $7\frac{1}{2}$  cables,  $134^{\circ}$  (S.  $41^{\circ}$  E. Mag.), from Wada Misaki lighthouse.

Lat.  $34^{\circ} 38\frac{1}{2}'$  N., long.  $135^{\circ} 11\frac{1}{2}'$  E.

*Description.*—Sunken wreck of S.S. *Fuku Maru*, over which there is a depth of 5 fathoms.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 2265, Kobe and Hyogo bays.

„ 16, Kobe and Osaka.

„ 3556, Izumi nada and Harima nada.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notices Nos. 109 and 127 of 1919. (H. 4788/19.)

JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

*Ganryu Jima Lighthouse*—Wreck north-eastward of, to be expunged from Charts; Existence of Wreck southward of.

No. 265 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1259 of 1919), are republished:—

*Former Notice.*—No. 1035 of 1919. (This office No. 216 of 1919.)

1. Wreck north-eastward of, to be expunged from charts:

*Position.*—At a distance of  $2\frac{1}{2}$  cables, north-eastward, from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56'$  E.

*Description.*—Wreck of the S.S. *Fusa Maru*.

*Remarks.*—This wreck has drifted ashore near Ganryu jima lighthouse and is to be expunged from the charts.

2. Existence of wreck southward of:

*Position (approximate).*—At a distance of  $3\frac{1}{10}$  cables,  $192^{\circ}$  (S.  $17^{\circ}$  W. Mag.), from Ganryu jima lighthouse.

*Description.*—Sunken wreck of the small sailing vessel *Nadayoshi Maru*.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notices Nos. 107 and 126 of 1919. (H. 4778 & 4787/19.)

JAPAN, INLAND SEA—SUWO NADA.

*Maruyama Zaki*—Wreck south-eastward of.

No. 266 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1260 of 1919), are republished:—

*Position (approximate).*—At a distance of about 3 miles southward from Saba Shima.

Lat.  $33^{\circ} 54' 57''$  N., long.  $131^{\circ} 30' 47''$  E.



*Description.*—Sunken wreck of the sailing vessel *Kinei Maru*, with one mast showing above water.

*Charts affected.*—No. 3153, Maruyama zaki to Ominase.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 83 of 1919. (H. 4032/19).

#### JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

##### *Hayatomo Seto—Existence of Wreck.*

No. 267 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1261 of 1919), are republished:—

*Position (approximate).*—At a distance of 3 $\frac{3}{4}$  cables, 153° (S. 22° E. Mag.), from Dan no Ura lighthouse.

Lat. 33° 58' N., long. 130° 58' E.

*Description.*—Sunken wreck of the sailing vessel *Suwa Gawa Maru* with masts showing above water.

*Variation.*—5° W.

*Charts affected.*—No. 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

„ 3225, Shimonoseki kaikyo to Maruyama zaki.

*Authority.*—Tokyo Notice No. 129 of 1919. (H. 4790/19.)

#### GULF OF ADEN.

##### *Berbera—Mooring Buoy Sunk.*

No. 268 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 57M. of 1919), are republished:—

*Position.*—At a distance of about 330 yards, 6° (N. 7° E. Mag.) from Shaab Pier head.

*Details.*—The Master of S.S. *Falcon* reports the white mooring buoy in the above position, having sunk.

*Variation.*—1° W.

*Chart affected.*—No. 3530, Berbera.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 445. Supplement No. 3, 1916.

*Authority.*—The Port Officer, Aden, dated 16th July 1919.

#### GULF OF ADEN—BRITISH SOMALILAND.

##### *Zeila Roadstead—Buoyage Unreliable.*

No. 269 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 58M. of 1919) are republished:—

*Subject.*—The Masters of the S.S. *Falcon* and S.S. *Woodcock* report that the following buoys in Zeila roadstead are out of position and missing:—



(1) Buoy missing:

*Position.*—Off the eastern edge of Aibat island reef at a distance of about  $8\frac{1}{2}$  miles, eastward from Aibat island beacon.

*Details.*—A red conical buoy.

(2) Buoy out of position:

*Position.*—At a distance of about  $\frac{1}{2}$  mile, north-north-westward of the northern edge of Shab Filfil reef.

*Details.*—A black conical buoy, surmounted by a staff and a white drum, now lies about one cable inside the northern limit of the reef.

*Charts affected.*—No. 919, Zeila roadstead.

„ 253, Jebel Jan to Shab Kulangarit.

„ 8e, Red Sea, Sheet V.

„ 6b, Gulf of Aden, western portion.

*Publication.*—Gulf of Aden Pilot, 1909, pages 436, 437.  
Supplement No. 3, 1916.

*Authority.*—The Port Officer, Aden, dated 16th July 1919.

The 19th August 1919.

AUSTRALIA—SOUTH COAST, SPENCER GULF.

*Point Lowly Light.*—*Light to be temporarily extinguished.*  
*Provisional light to be established.*

No. 246 (second publication).—

*Subject.*—The flashing white light with red sector on Point Lowly will be temporarily extinguished, and a provisional flashing white light of low power, having the undermentioned characteristics, will be exhibited in its place, from about 2nd October 1919 to about 22nd October 1919.

*Position.*—Lat.  $33^{\circ} 00' S.$ , long.  $137^{\circ} 47' E.$

*Details.*—Provisional light to be exhibited from existing tower.

*Character.*—*Flashing white light*, showing one flash every twelve and-a-half seconds, thus:—

Flash	Eclipse
2 $\frac{1}{2}$ secs.	10 secs.

*Remarks.*—The existing light will be extinguished from about 2nd October 1919 to about 22nd October 1919, pending repairs to the apparatus. During the interval, the provisional light described above will be exhibited from the existing tower.

The red sector shown at present from the existing light will be omitted from the provisional light, which will show white to seaward.

*Note.*—No further notice will be given.

*Charts temporarily affected.*—No. 403, Wood Point to Lowly Point.

„ 401, Approach to Port Augusta.

„ 2389, St. Vincent and Spencer Gulfs.

„ 2759b, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI. 1919, No. 2338.

Australia Pilot, Vol. I, 1918, page 233.

*Authority.*—Melbourne notice No. 9 of 1919.



*The 12th August 1919.*

# BAY OF BENGAL—ANDAMAN ISLANDS.

## Table Island—Existence of a Rock off.

*No. 242 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 56-M. of 1919), are republished :—

*Position.*—At a distance of about 7½ cables 95° (S. 85° E. Mag.) from Table Island Light-house :

Lat. 14° 10' 57" N.

Long. 93° 23' 13" E.

*Description.*—An uncharted rock with a depth of 2 fathoms over it.

*Variation.*—Nil.

*Charts affected.*—No. 825, Andaman Islands.

„ 3103, North Part of North Andaman Island.

„ 830, Bassein River to Pulo Penang.

„ 70, Bay of Bengal.

*Publication.*—Bay of Bengal Pilot, 1910, page 440.

*Authority.*—The Commanding Officer, R. I. M. S. "Mayo", dated 30th June 1919.

# AUSTRALIA—TORRES STRAIT, WESTERN APPROACH.

## Merkara shoal—Establishment of Light-Vessel postponed.

*No. 243 (third publication).*—With reference to Notice to Mariners No. 184 of 1919 issued by this office, the Comptroller-General of Customs, Melbourne, has given further Notice, No. 6 of 1919, that the proposed establishment of a light-vessel in the Western Approach to Torres Strait (Merkara Shoal) is postponed until further notice.

# AUSTRALIA, SOUTH-WEST COAST.

*No. 244 (third publication).*—

*Cape Naturaliste.*—*Light to be temporarily extinguished.*  
*Provisional light to be established.*

*Subject.*—The group flashing white light on Cape Naturaliste will be temporarily extinguished and a group flashing white light of low power, having the undermentioned characteristics, will be exhibited in its place from about 15th October 1919 to 15th November 1919.

*Position.*—Lat. 33° 32' S., long. 115° 02' E.

*Details.*—Provisional light to be exhibited from existing lantern.

*Character.*—Group flashing white light, showing two flashes in quick succession every six seconds, thus :—

Flash	Eclipse	Flash	Eclipse
½ sec.	1 sec.	½ sec.	4½ secs.

*Power.*—1,500 candles.

*Visibility.*—10 miles.

*Remarks.*—The existing light will be extinguished from about 15th October 1919 to 15th November 1919, pending repairs to the apparatus. During the interval the provisional light described above will be exhibited from the existing lantern.



*Note.*—No further notice will be given.

*Charts temporarily affected.*—No. 1034, Cape Naturaliste to King George Sound, with plan.  
 „ 1033, Champion Bay to Cape Naturaliste.  
 „ 2759b, Australia, Southern portion.  
 „ 748a, Indian Ocean, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2283.

Australia Pilot, Vol. V, 1914, page 397.

*Authority.*—Melbourne Notice No. 7 of 1919.

### AUSTRALIA, EAST COAST.

No. 245 (third publication).—

*Tacking Point Light.*—*Intended alteration in Character.*  
*Signal station to be discontinued.*

*Subject.*—The Fixed White Light on Tacking Point will be replaced by a Group Flashing White Light, and further, that the Signal Station will be discontinued, on or about 31st October 1919.

*Position.*—Near extreme of Point.

Lat.  $31^{\circ} 28\frac{1}{2}'$  S., long.  $152^{\circ} 57\frac{1}{2}'$  E., on Chart No. 1025.

*Details.*—The Fixed White Light will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group flashing White Light, showing four flashes in quick succession every twelve seconds, thus:—

Flash $\frac{1}{2}$ sec.	Eclipse 1 sec.	Flash $\frac{1}{2}$ sec.	Eclipse 1 sec.	Flash $\frac{1}{2}$ sec.	Eclipse 1 sec.	Flash $\frac{1}{2}$ sec.	Eclipse $7\frac{1}{2}$ secs.
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*Visibility.*—12 miles.

*Power.*—1,500 candles.

*Remarks.*—The light will be unwatched.

The signal station will be discontinued, and the Light keeper withdrawn.

The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1024, Port Stevens to Tacking Point.

„ 1025, Tacking Point to Coffs Islands.

„ 3622, Port Jackson to Cape Byron.

„ 2759b, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2575.

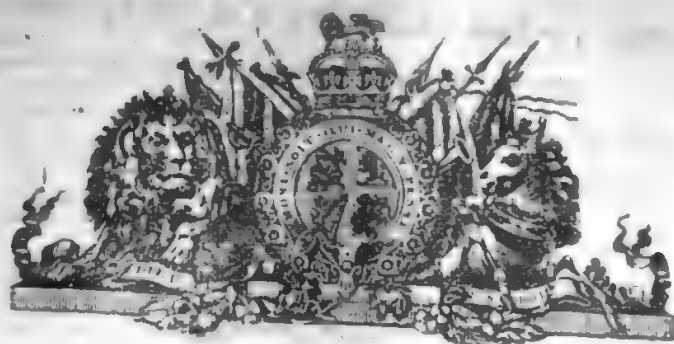
Australia Pilot, Vol. III, 1916, page 75.

*Authority.*—Melbourne Notice No. 8 of 1919.

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 10, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Sery. to the Govt. of Bengal.*

CALCUTTA, the 30th August 1919.

#### EASTERN ARCHIPELAGO—FLORES SEA, TANAH JAMPEA.

*Tanah Malalla—Reef northward of.*

No. 270 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1273 of 1919), are republished:—

*Position*.—Lat  $7^{\circ} 04' 05''$  S., long.  $120^{\circ} 35' 25''$  E.

*Depth*.—2½ fathoms, coral and stones.

*Remarks*.—The reef is about half a cable in extent.

*Charts affected*.—No. 935, Plan of Tanah Jampea.  
„ 1696, Lombok to Flores.

*Publication*.—Eastern Archipelago Pilot, Part II, 1913, page 318.

*Authority*.—Hague Notice No. 1410 of 1918. (*H. 6284, 18.*)

#### JAPAN—HOKUSHU, SOUTH COAST.

*Hakodate Ko—Prohibited Anchorage abolished.*

No. 271 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1274 of 1919), are republished:—

*Position*.—Benten zaki, lat.  $41^{\circ} 46\frac{1}{2}'$  N., long.  $140^{\circ} 42'$  E.

*Details*.—Vessels are no longer prohibited from anchoring within the semicircular area shown on the chart northward of Benten zaki breakwater.

The limits of this area are to be expunged from the chart together with the note “Vessels not to anchor within these limits.”



*Chart affected*—No. 2672, Hakodate ko.

*Publication*.—Japan Pilot, 1914, page 681.

*Authority*.—Tokyo Notice No. 140 of 1919. (*H. 4876/19.*)

#### JAPAN—INLAND SEA.

*Kuka wan—Non-Existence of Wrecks north-eastward of.*

No. 272 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1281 of 1919), are republished:—

Position on charts.

(a) Lat.  $33^{\circ} 58' 00''$  N., long.  $132^{\circ} 17' 30''$  E.

(b) Lat.  $33^{\circ} 58' 27''$  N., long.  $132^{\circ} 18' 00''$  E.

*Remarks*.—The above wrecks, marked “(posn. approx.),” are to be expunged from the charts.

*Charts affected*.—No. 3154, Ominase to Gogo shima.

„ 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi).

*Authority*.—Tokyo Notice No. 132 of 1919. (*H. 4793/19.*)

#### JAPAN—KIUSIU, NORTH COAST.

*Fukuoka Wan—Amended Position of Rock; Shoal Depth.*

No. 273 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1282 of 1919), are republished:—

(1) Amended position of rock:

*Former Notice*.—No. 1180 of 1919. (*This office No. 256 of 1919.*)

*Position*.—At a distance of about four-tenths of a cable southward of position given in former Notice and  $5\frac{1}{10}$  cables,  $269^{\circ}$  (N.  $87^{\circ}$  W. *Mag.*), from 504-foot summit of Nokono shima.

Lat.  $33^{\circ} 37'$  N., long.  $130^{\circ} 17'$  E.

*Description*.—A 2-fathom rock; this rock is known as “Miyama Dashi.”

(2) Shoal depth:

*Position*.—At a distance of  $3\frac{1}{4}$  cables,  $212^{\circ}$  (S.  $36^{\circ}$  W. *Mag.*), from Zo Ze (Hasira sima).

Lat.  $33^{\circ} 37\frac{1}{4}'$  N., long.  $130^{\circ} 17'$  E.

*Depth*.— $5\frac{1}{4}$  fathoms, rock.

*Variation*.— $4^{\circ}$  W.

*Charts affected*.—No. 3511, Fukuoka wan.

„ 127, Hirado kaikyo to Shimonoseki kaikyo.

*Publication*.—Japan Pilot, 1914, pages 537, 538.

*Authority*.—Tokyo Notice No. 135 of 1919. (*H. 4869/19.*)



JAPAN—INLAND SEA.

*Mihara Seto Approaches—Existence of Rocks.*

No. 274 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1292 of 1919), are republished:—

(a) *Position*.—Off the northern end of Kone jima.  
Lat.  $34^{\circ} 19' 54''$  N., long.  $133^{\circ} 04' 02''$  E.

*Depth*.—2 fathoms.

(b) *Position*.—In the channel northward of Ikuchi jima.  
Lat.  $34^{\circ} 19' 00''$  N., long.  $133^{\circ} 07' 15''$  E.

*Depth*.—Less than 6 feet.

(c) *Position*.—In the channel eastward of Sa shima.  
Lat.  $34^{\circ} 14' 47''$  N., long.  $133^{\circ} 11' 36''$  E.

*Depth*.—Less than 6 feet.

(d) *Position*.—Off the southern end of Yuge shima.  
Lat.  $34^{\circ} 14' 17''$  N., long.  $133^{\circ} 11' 45''$  E.

*Depth*.—Less than 6 feet.

*Chart affected*.—No. 3325. Channels between Neko seto and Mekari seto.

*Publication*.—Japan Pilot. 1914, pages 337, 342, 344.

*Authority*.—Tokyo Notice No. 113 of 1919. (H. 4784/19.)

BAY OF BENGAL—CHITTAGONG COAST.

*Chittagong (Karnafuli) river—Leading marks over Inner Bar and depth of water.*

No. 275-I (first publication).—

*Subject*.—A new mark Batten-beacon painted white in line with Coomb's Pillar has been placed in the following position for the use of Mariners:—

Coomb's Pillar ...  $52^{\circ} 35'$  (N.  $52^{\circ}$  E. Mag.)

Jaldia Flagstaff ...  $170^{\circ} 50'$  (S.  $9^{\circ} 45'$  E. Mag.)

*Inner Bar*:—Batten-beacon and Coomb's Pillar, 9'-6".

*Variation*.— $0^{\circ} 35'$  E.

*Chart affected*.—No. 84, Chittagong (Karnafuli) river.

*Publication*.—Bay of Bengal Pilot, 1910, page 322.

*Authority*.—Port Officer, Chittagong. Notice dated 27th August 1919.

The 25th August 1919.

CHINA, EAST COAST—YANG TSE KIANG.

*Silver Island Crossing Light-Beacon—Alteration in Position.*

No. 247 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1139 of 1919), are republished:—

*New position*.—At a distance of 171 yards,  $321^{\circ}$  (N.  $33^{\circ}$  W. Mag.), from position shown on charts and  $15^{\circ}$  (N.  $18^{\circ}$  E. Mag.) from the flagstaff at Tu Tien Miao fort.

Lat.  $32^{\circ} 154'$  N., long.  $119^{\circ} 294'$  E.



*New abridged description.*—Lt. F., 50 ft.

*Description.*—A fixed white light.

*Remarks.*—The elevation of the light is 50 feet instead of 30 feet as formerly.

*Variation.*—3° W.

*Charts affected.*—No. 1288, Plans of Chin kiang fu and Silver island; and Se Yun kau creek to Silver island.

„ 2809, Yang tse kiang—sheet 1.: Shanghai to Nanking.

*Publication.*—Yangtse kiang Pilot, 1914, page 53.

*Authority.*—Yangtse River Series Notice No. 370 of 1919. (H. 1968/19.)

#### CHINA SEA—CARIMATA STRAIT.

*Billiton Island, East Coast—Discoloured Water reported.*

*No. 248 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1143 of 1919), are republished:—

*Position.*—At a distance of about 2 miles south-eastward of Mempirak.

Lat. 2° 43' 45" S., long. 108° 27' 50" E.

*Details.*—Discoloured water was observed in the above position.

*Note.*—The position on the chart is to be encircled by a danger line and marked "*Discoloured water repd. (1919).*"

*Chart affected.*—No. 2160, Carimata strait.

*Publication.*—China Sea Pilot, Vol. II., 1915, page 209; Revised Supplement (2), 1919.

*Authority.*—Hague Notice No. 1980 of 1919. (H. 3903/19.)

#### CHINA, EAST COAST.

*Yangtse Kiang—Lights to be erased from certain Charts.*

*No. 249 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1147 of 1919), are republished:—

Owing to the frequent alterations in lights necessitated by the constant changes in the channels it has been decided in future to omit the lights in the Yangtse kiang on Admiralty charts Nos. 2678, 2695 and 2849; the lights are therefore to be expunged and the note "*and the lights are not shown*" is to be added to the cautionary note in the title of these charts.

Attention is also drawn to the cautionary note in the Admiralty List of Lights.

*Note.*—A new edition of these charts will shortly be issued with the lights omitted in accordance with the above.

*Publications.*—List of Lights, Part VI, 1919, pages 201, 202.

Yangtse Kiang Pilot, 1914, page 17.

*Authority.*—Hydrographic Department. (H. 4701/19.)

#### SUMATRA, EAST COAST—BANKA ISLAND.

*Klabat Bay Approach—Shoal reported.*

*No. 250 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1153 of 1919), are republished:—

*Position.*—At a distance of about 6½ miles north-westward from Penyusu island lighthouse.

Lat. 1° 28' 52" S., long. 105° 35' 47" E.



*Depth.*—About 3 fathoms.

*Note.*—The shoal is to be marked "*Repd. (1919)*" on the charts.

*Charts affected.*—No. 2597, Banka strait.

„ 2149, Banka and Gaspar straits.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago—sheet 3.

„ 1263, China sea.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 130.

*Authority.*—Hague Notice No. 1079 of 1919. (*H. 3902/19.*)

### SUMATRA, WEST COAST.

*Benkulen*—*Non-existence of Reef reported north-westward of.*

*No. 251 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1155 of 1919), are republished :—

*Former Notice.*—No. 1187 of 1918. (*This office No. 379 of 1918.*)

*Position on chart.*—At a distance of about 38 miles north-westward from Benkulen.

Lat.  $3^{\circ} 29' S.$ , long.  $101^{\circ} 42' E.$

*Description.*—A reef, shown on charts as having a depth of less than 6 feet.

*Remarks.*—A careful search has failed to reveal any trace of the existence of the reef reported in the above position in the former Notice. The reef is to be expunged from the charts accordingly.

*Charts affected.*—No. 2761, Chingkuk bay to the Strait of Sunda.  
„ 748b, Indian ocean—northern portion.

*Publication.*—China Sea Pilot, Vol. I, 1916, page 394.

*Authority.*—Hague Notice No. 1194 of 1919. (*H. 4284/19.*)

### INDIA—BAY OF BENGAL.

*River Hugli*—*Amendments to Charts with regard to Aids to Navigation.*

*No. 252 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1158 of 1919), are republished :—

1. Amended arc of visibility of Sagar island light :

*Position.*—Sagar island lighthouse, lat.  $21^{\circ} 39\frac{1}{2}' N.$ , long.  $88^{\circ} 02\frac{1}{2}' E.$

*Details.*—The light is visible from  $315^{\circ}$  (*N.  $45^{\circ}$  W. Mag.*) through north to  $166^{\circ}$  (*S.  $14^{\circ}$  E Mag.*).

2. Amended period of light of Middleton light-vessel :

*Position.*—At a distance of about  $3\frac{1}{2}$  miles southward of Sagar island lighthouse.

*New abridged description.*—Lt. Occ., ev. 10 sec., 30 ft., vis. 10 m. (U).

*Details.*—The period of this occulting white light is ten seconds thus :—

Light,	eclipse.
6 secs.	4 secs.

3. Light-buoy "L. S. Stn." replaced by buoy :



*Position.*—At a distance of about 6½ miles southward of Sagar island lighthouse.

*Details.*—Light-buoy "L. S. Stn.", with group flashing white light has been replaced by a black can unlighted buoy.

4. Alteration in light on light-buoy "G" :

*Position.*—South-eastward of Eagle sand, and at a distance of about 9 miles westward of Sagar island lighthouse.

*Details.*—The group occulting white light on the black can light-buoy "G" has been replaced by an *occulting white light every eight seconds*, thus :—

Light,	eclipse.
4 secs.	4 secs.

*Variation.*—Nil.

*Charts affected.*—No. 136, River Hugli—Sagar Point to Calcutta.

„ 814, The Sandheads—False point to Matla river.

*Publications.*—List of Lights, Part VI, 1919, Nos. 614, 615.

Bay of Bengal Pilot, 1910, page 300.

*Authority.*—Director of the Royal Indian Marine. (H. 1099/19).

#### JAPAN—HOKUSHŪ.

##### Otaru Ko—Light discontinued.

*No. 253 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1163 of 1919), are republished :—

*Position.*—On North breakwater.

Lat. 43° 12' N., long. 141° 01' E.

*Description.*—A fixed red light.

*Note.*—The light has been discontinued and is to be expunged from the charts.

*Remarks.*—The *fixed green* light on the South breakwater has an elevation of 29 feet and is visible 5 miles. The abridged description on the charts is to be amended accordingly.

*Charts affected.*—No. 993, Plan of Otaru ko.

„ 2981, Furubira wan to Aikappu misaki.

„ 452, Hokushū island.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2130 and 2131.

Japan Pilot, 1914, page 696 ; Revised Supplement (2), 1919.

*Authority.*—Department of Communications, Tokyo, Notices Nos. 505, 506 of 1919. (H. 4145/19.)

#### CHINA SEA—BILLITON ISLAND, EAST COAST.

##### Burok Point—Shoal reported eastward of.

*No. 254 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1165 of 1919), are republished :—

*Position.*—At a distance of about 3 miles eastward from Burok point.

Lat. 2° 46' 50" S., long. 108° 20' 20" E., on chart No. 2160.

*Depth.*—One fathom, coral.



**Remarks.**—The symbol for a rock with a depth of less than 6 feet, marked "*Repd. (1919)*", is to be placed on the charts in this position.

**Charts affected.**—No. 2160, Carimata strait.

" 941a, Eastern Archipelago—sheet 1.

**Publication.**—China Sea Pilot, Vol. II, 1915, page 199.

**Authority.**—Hague Notice No. 1196 of 1919. (*H. 4286/19.*)

#### RED SEA—EASTERN SHORE.

##### *Hodeida Roads—Existence of Rock.*

**No. 255 (second publication).**—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1175 of 1919), are republished:—

**Position (approximate).**—At a distance of  $18\frac{1}{2}$  cables,  $267^{\circ}$  (*S.  $87^{\circ}$  W. Mag.*), from the round minaret with tall spire situated north-westward of the large stone house at Hodeida.  
Lat.  $14^{\circ} 47' N.$ , long.  $42^{\circ} 54' E.$

**Depth.**—7 feet (coral).

**Remarks.**—This rock is not shown on the plan of Hodeida road on certain copies of chart No. 14, which are to be corrected accordingly.

**Variation.**—Nil.

**Chart affected.**—No. 14, Plan of Hodeida road.

**Publication.**—Red Sea, &c., Pilot, 1909, page 389; Revised Supplement (3), 1917.

**Authority.**—Hydrographic Department. (*H. 4417/19.*)

#### JAPAN—KIU-SIU, NORTH COAST.

##### *Fukuoka Wan—Rock reported.*

**No. 256 (second publication).**—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1180 of 1919), are republished:—

**Position.**—At a distance of  $5\frac{6}{10}$  cables,  $273^{\circ}$  (*N.  $83^{\circ}$  W. Mag.*) from 504-foot summit of Nokono shima.  
Lat.  $33^{\circ} 37' N.$ , long.  $130^{\circ} 17' E.$

**Details.**—A vessel is reported to have struck a rock in the foregoing position and to have obtained a sounding of 2 fathoms.

**Note.**—A 2-fathom rock is to be inserted on the charts in the position given above.

**Caution.**—Mariners are advised to exercise caution whilst navigating in the above locality, pending further information.

**Variation.**— $4^{\circ}$  W.

**Charts affected.**—No. 3511, Fukuoka wan.

" 127, Hirado kaikyo to Shimonoseki kaikyo.

**Publication.**—Japan Pilot, 1914, page 537.

**Authority.**—Tokyo Notice No. 98 of 1919. (*H. 4396/19.*)



## JAPAN—INLAND SEA, BI-SAN SETO.

*Ogi Jima—Wreck north-eastward of.*

*No. 257 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1181 of 1919), are republished:—

*Position.*—At a distance of  $7\frac{1}{2}$  cables,  $60^{\circ}$  (N.  $65^{\circ}$  E. *Mag.*), from Ogi jima lighthouse.

Lat.  $34^{\circ} 26\frac{1}{2}'$  N., long.  $134^{\circ} 04'$  E.

*Description.*—Sunken wreck of the S.S. *Naoetsu Mary*.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1963, Ozuchi jima to Funoko sima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 93 of 1919. (*H.* 4392/19.)

## CHINA SEA—FORMOSA, NORTH COAST.

*Kiirun Ko, Banjintai Bi Lighthouse—Fog-signal established.*

*No. 258 (second publication).*—The following particulars, etc., relative to the above issued by the British Admiralty (No. 1185 of 1919), are republished:—

*Position.*—Banjintai Bi lighthouse, lat.  $25^{\circ} 09\frac{1}{2}'$  N., long.  $121^{\circ} 44\frac{1}{2}'$  E.

*Description.*—A fog-gun.

*Details.*—When a vessel's fog-signals are heard by the lighthouse-keeper, *three* blank shots will be fired from the fog-gun with an interval of *three minutes* between them. Should the vessel's signals continue to be heard the firing of the gun will be repeated in a similar manner after an interval of *six minutes*.

*Note.*—The note "*Fog-gun (Occasl.)*" is to be placed against this light on the charts.

*Charts affected.*—No. 2618, Kiirun ko.

„ 3658, Auran road to So o wan.

„ 1761, Oekseu islands to Tung yung.

„ 1068, Formosa island and strait.

„ 2412, Amoy to Nagasaki.

„ 1262, Hongkong to Gulf of Liau-tung.

*Publications.*—List of Lights, Part VI, 1919, No 1841.

China Sea Pilot, Vol. V, 1912, page 230.

*Authority.*—Tokyo Notice No. 55 of 1919. (*H.* 4027/19.)

## KOREA—SOUTH-EAST COAST.

*Fusan Harbour—Alterations in Buoyage.*

*No. 259 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1186 of 1919), are republished:—

(a) Pupon Kutsu light-buoy established in place of buoy:

*Position.*—At a distance of 2 cables,  $23^{\circ}$  (N.  $28^{\circ}$  E. *Mag.*), from Uno se lighthouse, and about 80 yards eastward from the position formerly occupied by the red conical buoy with triangular topmark, which has been withdrawn.

Lat.  $35^{\circ} 06\frac{1}{2}'$  N., long.  $129^{\circ} 04'$  E.

*Description.*—A spherical light-buoy painted red, exhibiting a *flashing white light every three seconds*.

(b) Alteration in description of Kioshi Sho light-buoy:



*Position.*—At a distance of 3 cables,  $167^{\circ}$  (S.  $8^{\circ}$  E. Mag.), from Uno se lighthouse.

Lat.  $35^{\circ} 06\frac{1}{2}'$  N., long.  $129^{\circ} 04'$  E.

*New description.*—A spherical light-buoy painted black, exhibiting a *flashing green light every three seconds*.

(c) *Alteration in light on Puppau reef light-buoy :*

*Position.*—At the southern extremity of Puppau reef.

Lat.  $35^{\circ} 06\frac{1}{2}'$  N., long.  $129^{\circ} 04\frac{1}{2}'$  E.

*Alteration.*—The flashing green light on this light-buoy has been replaced by a *flashing red light every three seconds*.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1259, Fusan harbour.

„ 3666, Fusan harbour to Chukupen bay.

„ 3366, Fusan harbour to Port Hamilton.

*Publication.*—E. C. Korea, etc., Pilot, 1913, page 77; Revised Supplement, (2), 1918.

*Authority.*—Chosen Notice No. 59 of 1919. (H. 3994-19.)

#### NORTH PACIFIC OCEAN—CAROLINE ISLANDS.

*Helen Reef—Non-existence of Reef reported eastward of.*

No. 260 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1201 of 1919), are republished :—

*Position on charts.*—At a distance of about 45 miles eastward of Helen reef.

Lat.  $2^{\circ} 49'$  N., long.  $132^{\circ} 30'$  E.

*Description.*—A reef, marked “P.D. (1889)” on the charts, reported by the British barque *Transit*.

*Remarks.*—A reliable search has failed to reveal any trace of the existence of the above reef; the reef is to be expunged from the charts accordingly.

*Charts affected.*—No. 781, Pacific ocean—north-west sheet.

„ 2683, Pacific ocean.

„ 2483, Atlantic and Indian oceans, etc.

„ 2937, Oceanic soundings, Indian and Western Pacific oceans.

*Publication.*—Pacific Islands, Vol. I, 1908, page 422.

*Authority.*—Tokyo Notice No. 90 of 1919. (H. 4391-19.)

#### JAPAN—SHIMONOSEKI KAIKYO.

*Shimonoseki Ko—Existence of Wreck.*

No. 261 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1206 of 1919), are republished :—

*Position.*—At a distance of 9 cables,  $37^{\circ}$  (N.  $42^{\circ}$  E. Mag.), from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56\frac{1}{2}'$  E.

*Description.*—Sunken wreck of the sailing vessel *Daiku Shinei Maru* with mast showing about 7 feet above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 84 of 1919. (H. 4033/19.)



## JAPAN—HONSHŪ, NORTH-WEST COAST.

*Maizuru Harbour Approach—Obstruction removed.*

No. 262 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1214 of 1919), are republished:—

*Former Notice.*—No. 694 of 1919. (*This office No. 143 of 1919.*)

*Position.*—Bakuchi misaki 424-foot  $\Delta$ , lat.  $35^{\circ} 33' N.$ , long.  $135^{\circ} 20' E.$

*Details.*—The obstruction, the western end of which was formerly situated at a distance of about  $10\frac{1}{2}$  cables, north-eastward, from Bakuchi misaki 424-foot  $\Delta$ , has been removed.

The obstruction extended in an easterly direction from the above position for a distance of about 135 yards and was marked by buoys and red flags.

*Note.*—The obstruction and the note "Obstruction laid, marked by buoys and red flags (1918)", shown on the charts are to be expunged.

*Charts affected.*—No. 61, Plan of Miyadsu harbour and Port Ine.

" 2174, Amarube zaki to Ando zaki.

" 1495, Aburatani bay to Ando zaki.

*Publication.*—Japan Pilot, 1914, page 620.

*Authority.*—Tokyo Notice No. 108 of 1919. (*H. 4780/19.*)

## JAPAN—INLAND SEA.

(1) *Kurushima Kaikyo, Sei Suido—Existence of Rocks.*(2) *Aki Nada, Kami Kama Gari Shima—Existence of rock eastward of.*

No. 263 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1241 of 1919), are republished:—

(1) **Kurushima Kaikyo, Sei Suido.**

(a) *Position.*—At a distance of  $2\frac{1}{2}$  cables,  $93^{\circ}$  (*S.  $82^{\circ} E.$  Mag.*), from the 318-ft. summit of Ito Yama.

Lat.  $34^{\circ} 06' N.$ , long.  $132^{\circ} 58' E.$

*Depth.*— $3\frac{1}{2}$  fathoms, where  $6\frac{1}{2}$  fathoms was hitherto shown on the chart.

*Remarks.*—This rock is known by the name "Oise no Iwa".

(b) *Position.*—At a distance of  $4\frac{1}{2}$  cables,  $219^{\circ}$  (*S.  $44^{\circ} W.$  Mag.*), from Usu Bana, the southern extreme of Uma Shima island.

Lat.  $34^{\circ} 06' N.$ , long.  $132^{\circ} 58' E.$

*Depth.*—3 fathoms, where  $4\frac{1}{2}$  fathoms was hitherto shown on the chart.

*Remarks.*—This rock is known by the name "Makuri".

*Note.*—The above positions refer to chart No. 131.

(2) **Aki Nada, Kami Kama Gari Shima.**

*Position.*—At a distance of  $4\frac{1}{2}$  cables,  $31^{\circ}$  (*N.  $36^{\circ} E.$  Mag.*), from the extremity of Mi Saki.

Lat.  $34^{\circ} 11' N.$ , long.  $132^{\circ} 45' E.$

*Details.*—A rock which dries 9 feet at low water.

*Variation.*— $5^{\circ} W.$

*Charts affected.*—No. 131, Kurushima no seto.

" 3325, Channels between Neko seto and Mekari seto.

" 83, Gogo shima to Miyo shima.

*Publication.*—Japan Pilot, 1914, pages 333, 359.

*Authority.*—Tokyo Notices Nos. 114 and 115 of 1919. (*H. 4785/19.*)



JAPAN, INLAND SEA—GULF OF OSAKA.

(1) *Ayashi No Seto*—Existence of Wreck.

(2) *Kobe Approach*—Existence of Wreck.

No. 264 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1255 of 1919), are republished:—

(1) *Ayashi No Seto*.

*Position*.—At a distance of  $3\frac{1}{2}$  cables,  $300^{\circ}$  (N.  $55^{\circ}$  W. Mag.), from Ye Saki lighthouse.

Lat.  $34^{\circ} 36\frac{1}{2}'$  N., long.  $134^{\circ} 59'$  E.

*Description*.—Sunken wreck of S.S. *Daini Tosei Maru*.

(2) *Kobe Approach*.

*Position*.—At a distance of  $7\frac{1}{2}$  cables,  $134^{\circ}$  (S.  $41^{\circ}$  E. Mag.), from Wada Misaki lighthouse.

Lat.  $34^{\circ} 38\frac{1}{2}'$  N., long.  $135^{\circ} 11\frac{1}{2}'$  E.

*Description*.—Sunken wreck of S.S. *Fuku Maru*, over which there is a depth of 5 fathoms.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 2265, Kobe and Hyogo bays.

„ 16, Kobe and Osaka.

„ 3536, Izumi nada and Harima nada.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority*.—Tokyo Notices Nos. 109 and 127 of 1919. (H. 4788/19.)

JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

*Ganryu Jima Lighthouse*—Wreck north-eastward of, to be expunged from Charts; Existence of Wreck southward of.

No. 265 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1259 of 1919), are republished:—

*Former Notice*.—No. 1035 of 1919. (This office No. 216 of 1919.)

1. Wreck north-eastward of, to be expunged from charts:

*Position*.—At a distance of 24 cables, north-eastward, from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56'$  E.

*Description*.—Wreck of the S.S. *Fusa Maru*.

*Remarks*.—This wreck has drifted ashore near Ganryu jima lighthouse and is to be expunged from the charts.

2. Existence of wreck southward of:

*Position (approximate)*.—At a distance of  $3\frac{1}{10}$  cables,  $192^{\circ}$  (S.  $17^{\circ}$  W. Mag.), from Ganryu jima lighthouse.

*Description*.—Sunken wreck of the small sailing vessel *Nudayosht Maru*.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority*.—Tokyo Notices Nos. 107 and 126 of 1919. (H. 4778 & 4787/19.)



## JAPAN, INLAND SEA—SUWO NADA.

*Maruyama Zaki—Wreck south-eastward of.*

No. 266 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1260 of 1919), are republished :—

*Position (approximate).*—At a distance of about 3 miles southward from Saba Shima.

Lat.  $33^{\circ} 54' 57''$  N., long.  $131^{\circ} 30' 47''$  E.

*Description.*—Sunken wreck of the sailing vessel *Kinei Maru*, with one mast showing above water.

*Charts affected.*—No. 3153, Maruyama zaki to Ominase.  
„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 83 of 1919. (H. 4032/19).

## JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

*Hayatomo Selo—Existence of Wreck.*

No. 267 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1261 of 1919), are republished :—

*Position (approximate).*—At a distance of  $3\frac{1}{2}$  cables,  $153^{\circ}$  (S.  $22^{\circ}$  E. Mag.), from Dan no Ura lighthouse.

Lat.  $33^{\circ} 58'$  N., long.  $130^{\circ} 58'$  E.

*Description.*—Sunken wreck of the sailing vessel *Sun a Gawa Maru* with masts showing above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

„ 3225, Shimonoseki kaikyo to Maruyama zaki.

*Authority.*—Tokyo Notice No. 129 of 1919. (H. 4790/19.)

## GULF OF ADEN.

*Berbera—Mooring Buoy Sunk.*

No. 268 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 57M. of 1919), are republished :—

*Position.*—At a distance of about 330 yards,  $6^{\circ}$  (N.  $7^{\circ}$  E. Mag.) from Shaab Pier head.

*Details.*—The Master of S.S. *Falcon* reports the white mooring buoy in the above position, having sunk.

*Variation.*— $1^{\circ}$  W.

*Chart affected.*—No. 3530, Berbera.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 445. Supplement No. 3, 1916.

*Authority.*—The Port Officer, Aden, dated 16th July 1919.

## GULF OF ADEN—BRITISH SOMALILAND.

*Zeila Roadstead—Buoyage Unreliable.*

No. 269 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 58M. of 1919) are republished :—

*Subject.*—The Masters of the S.S. *Falcon* and S.S. *Woodcock* report that the following buoys in Zeila roadstead are out of position and missing :—

(1) Buoy missing:

*Position.*—Off the eastern edge of Aibat island reef at a distance of about  $3\frac{1}{2}$  miles, eastward from Aibat island beacon.

*Details.*—A red conical buoy.



(2) Buoy out of position :

*Position.*—At a distance of about  $\frac{1}{2}$  mile, north-north-westward of the northern edge of Shab Filfil reef.

*Details.*—A black conical buoy, surmounted by a staff and a white drum, now lies about one cable inside the northern limit of the reef.

*Charts affected.*—No. 919, Zeila roadstead.

„ 253, Jebel Jan to Shab Kulangarit.

„ 8a, Red Sea, Sheet V.

„ 6b, Gulf of Aden, western portion.

*Publication.*—Gulf of Aden Pilot, 1909, pages 436, 437.  
Supplement No. 3, 1916.

*Authority.*—The Port Officer, Aden, dated 16th July 1919.

*The 19th August 1919.*

AUSTRALIA—SOUTH COAST, SPENCER GULF.

*Point Lowly Light.*—*Light to be temporarily extinguished.*  
*Provisional light to be established.*

*No. 246 (third publication).—*

*Subject.*—The flashing white light with red sector on Point Lowly will be temporarily extinguished, and a provisional flashing white light of low power, having the undermentioned characteristics, will be exhibited in its place, from about 2nd October 1919 to about 22nd October 1919.

*Position.*—Lat.  $33^{\circ} 00' S.$ , long.  $137^{\circ} 47' E.$

*Details.*—Provisional light to be exhibited from existing tower.

*Character.*—*Flashing white light*, showing one flash every *twelve and-a-half* seconds, thus:—

Flash	Eclipse
$2\frac{1}{2}$ secs.	10 secs.

*Remarks.*—The existing light will be extinguished from about 2nd October 1919 to about 22nd October 1919, pending repairs to the apparatus. During the interval, the provisional light described above will be exhibited from the existing tower.

The red sector shown at present from the existing light will be omitted from the provisional light, which will show white to seaward.

*Note.*—No further notice will be given.

*Charts temporarily affected.*—No. 403, Wood Point to Lowly Point.

„ 401, Approach to Port Augusta.

„ 2389, St. Vincent and Spencer Gulfs.

„ 2759b, Australia, Southern portion.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2338.

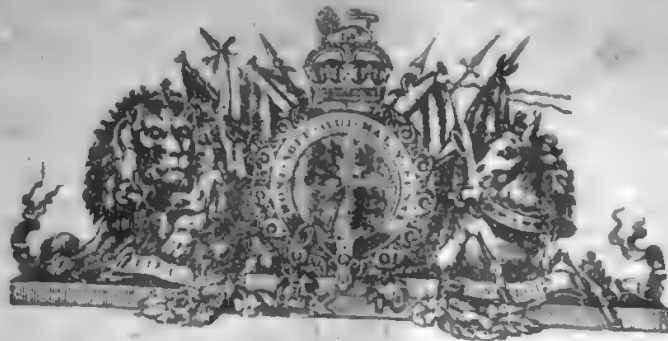
Australia Pilot, Vol. I, 1918, page 233.

*Authority.*—Melbourne notice No. 9 of 1919.

W. K. THYNE, COMDR., R.I.M.

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 17, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 8th September 1919.

#### AUSTRALIA, EAST COAST—INNER BARRIER ROUTE.

*North Barnard Islands Light.—Intended alteration in character.*

No. 276 (first publication).—

*Subject.*—The Fixed White Light on North Barnard Islands (Kent Island) will be replaced by a Flashing White Light, on or about 1st December 1919.

*Position.*—On Kent Island.

Lat.  $17^{\circ} 40\frac{1}{2}'$  S., long.  $146^{\circ} 11'$  E., on chart No. 2350.

*Details.*—The Fixed White Light will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—*Flashing White Light*, showing one flash every five seconds thus:—

Flash	Eclipse
$\frac{1}{2}$ sec.	$4\frac{1}{2}$ secs.

*Remarks.*—The light will be unwatched and the Lightkeeper withdrawn. The other details of the light will remain unchanged.

*Charts affected.*—No. 2350, Double Point to Cape Grafton.

„ 2349, Magnetic Island to Double Point.

„ 2763, Coral Sea and Great Barrier Reefs, sheet 1.

„ 2759a, Australia, Northern portion.

„ 780, Pacific Ocean, South-west sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2717.

Australia Pilot, Vol. IV., 1917, page 188.

*Authority.*—Melbourne Notice No. 10 of 1919.



## PERSIAN GULF—BANDAR ABBAS.

*Mooring Buoy Withdrawn.*

*No. 277 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 60M. of 1919), are republished :—

Former Notice R. I. M. No. 21-M of 1919. (*This office No. 98 of 1919.*)

*Position.*—At a distance of about 2 miles and 8 cables  $133\frac{1}{2}^{\circ}$  (S.  $48\frac{1}{2}^{\circ}$  E. *Mag.*) from British Consulate Flag Staff in 24 feet L.W.O.S.

Lat.  $27^{\circ} 9' 46''$  N.

Long.  $56^{\circ} 19' 59''$  E.

*Details.*—Information dated 14th August 1919 has been received from the Naval Transport Officer, Bandar-Abbas that the red mooring buoy in the above position was removed on the 14th August 1919.

*Variation.*— $2^{\circ}$  E.

*Charts affected.*—No. 3599, Plans in the Persian Gulf.

„ 753, Entrance to the Persian Gulf.

*Publication.*—Persian Gulf Pilot, 1915, page 202.

*Authority.*—Director of the Royal Indian Marine. Dated 16th August 1919.

## INDIA, WEST COAST.

*Vengurla Port—Alteration in period of Exhibition of Lights.*

*No. 278 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 61M. of 1919), are republished :—

*Position.*—Lat.  $15^{\circ} 51'$  N., long.  $73^{\circ} 36'$  E.

*Details.*—The period of exhibition of the two vertical fixed white lights, exhibited from a mast above the roof of a house, one mile west of the town, on Vengurla point, will be for 9 months only, viz., from 1st September to the 31st May in each year, commencing from the year 1919. During the remainder of the year, no light will be shewn.

*Charts affected.*—No. 902, Malvan to Vengurla with plan.

„ 740, Achra river to Cape Ramas.

„ 2736, Gulf of Kutch to Viziadurug.

„ 827, Vengurla to Cape Comorin.

„ 826, Karachi to Vengurla.

*Publications.*—Admiralty List of Lights, Part VI, 1919, No. 418, Indian Light List, 37th Issue, 1918 No. 118, West Coast of India Pilot, 1909, page 182.

*Authority.*—The Deputy Commissioner of Salt and Excise, Southern Division, Dhárwár, No. 125, dated 14th August 1919.

*The 30th August 1919.*

## EASTERN ARCHIPELAGO—FLORES SEA, TANAH JAMPEA.

*Tanah Malalla—Reef northward of.*

*No. 270 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1273 of 1919), are republished :—

*Position.*—Lat.  $7^{\circ} 04' 05''$  S., long.  $120^{\circ} 35' 25''$  E.

*Depth.*— $2\frac{1}{2}$  fathoms, coral and stones.



*Remarks.*—The reef is about half a cable in extent.

*Charts affected.*—No. 935, Plan of Tanah Jampea.  
 „ 1696, Lombok to Flores.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 318.

*Authority.*—Hague Notice No. 1419 of 1918. (H. 6284/18.)

### JAPAN—HOKUSHU, SOUTH COAST.

#### *Hakodate Ko—Prohibited Anchorage abolished.*

No. 271 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1274 of 1919), are republished :—

*Position.*—Benten zaki, lat.  $41^{\circ} 46' N.$ , long.  $140^{\circ} 42' E.$

*Details.*—Vessels are no longer prohibited from anchoring within the semicircular area shown on the chart northward of Benten zaki breakwater.

The limits of this area are to be expunged from the chart together with the note “Vessels not to anchor within these limits.”

*Chart affected*—No. 2672, Hakodate ko.

*Publication.*—Japan Pilot, 1914, page 681.

*Authority.*—Tokyo Notice No. 140 of 1919. (H. 4876/19.)

### JAPAN—INLAND SEA.

#### *Kuka wan—Non-Existence of Wrecks north-eastward of.*

No. 272 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1281 of 1919), are republished :—

*Position on charts.*

(a) Lat.  $33^{\circ} 58' 00'' N.$ , long.  $132^{\circ} 17' 30'' E.$

(b) Lat.  $33^{\circ} 58' 27'' N.$ , long.  $132^{\circ} 18' 00'' E.$

*Remarks.*—The above wrecks, marked “(posn. approx.),” are to be expunged from the charts.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi).

*Authority.*—Tokyo Notice No. 132 of 1919. (H. 4793 19.)

### JAPAN—KIUSIU, NORTH COAST

#### *Fukuoka Wan—Amended Position of Rock ; Shoal Depth.*

No. 273 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1282 of 1919), are republished :—

(1) Amended position of rock :

*Former Notice.*—No. 1180 of 1919. (This office No. 256 of 1919.)

*Position.*—At a distance of about four-tenths of a cable southward of position given in former Notice, and  $5\frac{7}{10}$  cables,  $269^{\circ}$  (N.  $87^{\circ}$  W. *Mag.*), from 504-foot summit of Nokono shima.

Lat.  $33^{\circ} 37' N.$ , long.  $130^{\circ} 17' E.$

*Description.*—A 2-fathom rock ; this rock is known as “Miyama Dushi.”

(2) Shoal depth :

*Position.*—At a distance of  $3\frac{1}{4}$  cables,  $212^{\circ}$  (S.  $36^{\circ}$  W. *Mag.*), from Zo Ze (Hasira sima).

Lat.  $33^{\circ} 37\frac{1}{4}' N.$ , long.  $130^{\circ} 17' E.$



*Depth.*—5½ fathoms, rock.

*Variation.*—4° W.

*Charts affected.*—No. 3511, Fukuoka wan.

127, Hirado kaikyo to Shimonoseki kaikyo.

*Publication.*—Japan Pilot, 1914, pages 537, 538.

*Authority.*—Tokyo Notice No. 135 of 1919. (H. 4869/19.)

#### JAPAN—INLAND SEA.

##### *Mihara Seto Approaches—Existence of Rocks.*

No. 274 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1292 of 1919), are republished :—

(a) *Position.*—Off the northern end of Kone jima.

Lat. 34° 19' 54" N., long. 133° 04' 02" E.

*Depth.*—2 fathoms.

(b) *Position.*—In the channel northward of Ikuchi jima.

Lat. 34° 19' 00" N., long. 133° 07' 15" E.

*Depth.*—Less than 6 feet.

(c) *Position.*—In the channel eastward of Sa shima.

Lat. 34° 14' 47" N., long. 133° 11' 36" E.

*Depth.*—Less than 6 feet.

(d) *Position.*—Off the southern end of Yuge shima.

Lat. 34° 14' 17" N., long. 133° 11' 45" E.

*Depth.*—Less than 6 feet.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, pages 337, 342, 344.

*Authority.*—Tokyo Notice No. 113 of 1919. (H. 4784/19.)

#### BAY OF BENGAL—CHITTAGONG COAST.

*Chittagong (Karnafuli) river—Leading marks over Inner Bar and depth of water.*

No. 275-I (second publication).—

*Subject.*—A new mark Batten-beacon painted white in line with Coomb's Pillar has been placed in the following position for the use of Mariners :—

Coomb's Pillar ... 52° 35' (N. 52° E. Mag.)

Jaldia Flagstaff ... 170° 50' (S. 9° 45' E. Mag.)

*Inner Bar.*—Batten-beacon and Coomb's Pillar, 9'-6".

*Variation.*—0° 35' E.

*Chart affected.*—No. 84, Chittagong (Karnafuli) river.

*Publication.*—Bay of Bengal Pilot, 1910, page 322.

*Authority.*—Port Officer, Chittagong. Notice dated 27th August 1919.

The 26th August 1919.

#### CHINA. EAST COAST—YANG TSE KIANG.

##### *Silver Island Crossing Light-Beacon—Alteration in Position.*

No. 247 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1159 of 1919), are republished :—

*New position.*—At a distance of 171 yards, 324° (N. 33° W. Mag.), from position shown on charts and 15° (N. 18° E. Mag.) from the flagstaff at Tu Tien Miao fort.

Lat. 32° 15½' N., long. 119° 29½' E.



*New abridged description.*—Lt. F., 50 ft.

*Description.*—A fixed white light.

*Remarks.*—The elevation of the light is 50 feet instead of 30 feet as formerly.

*Variation.*—3° W.

*Charts affected.*—No. 1288, Plans of Chin kiang fu and Silver island; and Se Yun kau creek to Silver island.

„ 2809, Yang tse kiang—sheet 1.: Shanghai to Nanking.

*Publication.*—Yangtse kiang Pilot, 1914, page 53.

*Authority.*—Yangtse River Series Notice No. 370 of 1919. (H. 1968/19.)

#### CHINA SEA—CARIMATA STRAIT.

*Billiton Island, East Coast—Discoloured Water reported.*

No. 248 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1143 of 1919), are republished:—

*Position.*—At a distance of about 2 miles south-eastward of Mempirak.

Lat. 2° 43' 45" S., long. 108° 27' 50" E.

*Details.*—Discoloured water was observed in the above position.

*Note.*—The position on the chart is to be encircled by a danger line and marked "Discoloured water repd. (1919)."

*Chart affected.*—No. 2160, Carimata strait.

*Publication.*—China Sea Pilot, Vol. II., 1915, page 209; Revised Supplement (2), 1919.

*Authority.*—Hague Notice No. 1980 of 1919. (H. 3903/19.)

#### CHINA, EAST COAST.

*Yangtse Kiang—Lights to be erased from certain Charts.*

No. 249 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1147 of 1919), are republished:—

Owing to the frequent alterations in lights necessitated by the constant changes in the channels it has been decided in future to omit the lights in the Yangtse kiang on Admiralty charts Nos. 2678, 2695 and 2849; the lights are therefore to be expunged and the note "and the lights are not shown" is to be added to the cautionary note in the title of these charts.

Attention is also drawn to the cautionary note in the Admiralty List of Lights.

*Note.*—A new edition of these charts will shortly be issued with the lights omitted in accordance with the above.

*Publications.*—List of Lights, Part VI, 1919, pages 201, 202.

Yangtse Kiang Pilot, 1914, page 17.

*Authority.*—Hydrographic Department. (H. 4701/19.)

#### SUMATRA, EAST COAST—BANKA ISLAND.

*Klabat Bay Approach—Shoal reported.*

No. 250 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1153 of 1919), are republished:—

*Position.*—At a distance of about 6½ miles north-westward from Penyusu Island lighthouse.

Lat. 1° 28' 52" S., long. 105° 35' 47" E.



*Depth.*—About 3 fathoms.

*Note.*—The shoal is to be marked "*Repd. (1919)*" on the charts.

*Charts affected.*—No. 2597, Banka strait.

„ 2149, Banka and Gaspar straits.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago—sheet 3.

„ 1263, China sea.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 130.

*Authority.*—Hague Notice No. 1079 of 1919. (*H. 3902/19.*)

### SUMATRA, WEST COAST.

*Benkulen*—Non-existence of Reef reported north-westward of.

*No. 251 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1155 of 1919), are republished :—

*Former Notice.*—No. 1187 of 1918. (*This office No. 379 of 1918.*)

*Position on chart.*—At a distance of about 38 miles north-westward from Benkulen.

Lat.  $3^{\circ} 29' S.$ , long.  $101^{\circ} 42' E.$

*Description.*—A reef, shown on charts as having a depth of less than 6 feet.

*Remarks.*—A careful search has failed to reveal any trace of the existence of the reef reported in the above position in the former Notice. The reef is to be expunged from the charts accordingly.

*Charts affected.*—No. 2761, Chingkuk bay to the Strait of Sunda.

„ 748b, Indian ocean—northern portion.

*Publication.*—China Sea Pilot, Vol. I, 1916, page 394.

*Authority.*—Hague Notice No. 1194 of 1919. (*H. 4284/19.*)

### INDIA—BAY OF BENGAL.

*River Hugli*—Amendments to Charts with regard to Aids to Navigation.

*No. 252 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1158 of 1919), are republished :—

1. Amended arc of visibility of Sagar island light :

*Position.*—Sagar island lighthouse, lat.  $21^{\circ} 39\frac{1}{4}' N.$ , long.  $88^{\circ} 02\frac{1}{4}' E.$

*Details.*—The light is visible from  $315^{\circ}$  (*N.  $45^{\circ}$  W. Mag.*) through north to  $166^{\circ}$  (*S.  $14^{\circ}$  E Mag.*).

2. Amended period of light of Middleton light-vessel :

*Position.*—At a distance of about  $3\frac{1}{4}$  miles southward of Sagar island lighthouse.

*New abridged description.*—Lt. Occ., ev. 10 sec., 30 ft., vis. 10 m. (U).

*Details.*—The period of this occulting white light is ten seconds thus :—

Light,	eclipse.
6 secs.	4 secs.

3. Light-buoy "L. S. Stn." replaced by buoy :



*Position.*—At a distance of about 6½ miles southward of Sagar island lighthouse.

*Details.*—Light-buoy "L. S. Stn.", with group flashing white light has been replaced by a black can unlighted buoy.

4. Alteration in light on light-buoy "G":

*Position.*—South-eastward of Eagle sand, and at a distance of about 9 miles westward of Sagar island lighthouse.

*Details.*—The group occulting white light on the black can light-buoy "G" has been replaced by an *occulting white light every eight seconds*, thus:—

Light.	eclipse.
4 secs.	4 secs.

*Varidlion.*—Nil.

*Charts affected.*—No. 136, River Hugli—Sagar Point to Calcutta.  
 „ 814, The Sandheads—False point to Matla river.

*Publications.*—List of Lights, Part VI, 1919, Nos. 614, 615.  
 Bay of Bengal Pilot, 1910, page 300.

*Authority.*—Director of the Royal Indian Marine. (H. 1099/19).

JAPAN—HOKUSHŪ.

Otaru Ko—Light discontinued.

No. 253 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1163 of 1919), are republished:—

*Position.*—On North breakwater.

Lat. 43° 12½' N., long. 141° 01' E.

*Description.*—A fixed red light.

*Note.*—The light has been discontinued and is to be expunged from the charts.

*Remarks.*—The *fixed green* light on the South breakwater has an elevation of 29 feet and is visible 5 miles. The abridged description on the charts is to be amended accordingly.

*Charts affected.*—No. 993, Plan of Otaru ko.

„ 2981, Furubira wan to Aikappu misaki.

„ 452, Hokushū island.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2130 and 2131.

Japan Pilot, 1914, page 696; Revised Supplement (2), 1919.

*Authority.*—Department of Communications, Tokyo, Notices Nos. 505, 506 of 1919. (H. 4145/19.)

CHINA SEA—BILLITON ISLAND, EAST COAST.

Burok Point—Shoal reported eastward of.

No. 254 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1165 of 1919), are republished:—

*Position.*—At a distance of about 3 miles eastward from Burok point.

Lat. 2° 46' 50" S., long. 108° 20' 20" E., on chart No. 2160.

*Depth.*—One fathom, coral.



*Remarks.*—The symbol for a rock with a depth of less than 6 feet, marked "*Repd. (1919)*", is to be placed on the charts in this position.

*Charts affected.*—No. 2160, Carinata strait.

" 941a, Eastern Archipelago—sheet 1.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 199.

*Authority.*—Hague Notice No. 1196 of 1919. (*H. 4286/19.*)

#### RED SEA—EASTERN SHORE.

##### *Hodeida Roads—Existence of Rock.*

*No. 255 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1175 of 1919), are republished:—

*Position (approximate).*—At a distance of  $18\frac{1}{2}$  cables,  $267^{\circ}$  (*S.  $87^{\circ}$  W. Mag.*), from the round minaret with tall spire situated north-westward of the large stone house at Hodeida.  
Lat.  $14^{\circ} 47' N.$ , long.  $42^{\circ} 54' E.$

*Depth.*—7 feet (coral).

*Remarks.*—This rock is not shown on the plan of Hodeida road on certain copies of chart No. 14, which are to be corrected accordingly.

*Variation.*—Nil.

*Chart affected.*—No. 14, Plan of Hodeida road.

*Publication.*—Red Sea, &c., Pilot, 1909, page 389; Revised Supplement (3), 1917.

*Authority.*—Hydrographic Department. (*H. 4417/19.*)

#### JAPAN—KIUSIU, NORTH COAST.

##### *Fukuoka Wan—Rock reported.*

*No. 256 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1180 of 1919), are republished:—

*Position.*—At a distance of  $5\frac{1}{6}$  cables,  $273^{\circ}$  (*N.  $83^{\circ}$  W. Mag.*) from 504-foot summit of Nokono shima.  
Lat.  $33^{\circ} 37' N.$ , long.  $130^{\circ} 17' E.$

*Details.*—A vessel is reported to have struck a rock in the foregoing position and to have obtained a sounding of 2 fathoms.

*Note.*—A 2-fathom rock is to be inserted on the charts in the position given above.

*Caution.*—Mariners are advised to exercise caution whilst navigating in the above locality, pending further information.

*Variation.*— $4^{\circ}$  W.

*Charts affected.*—No. 3511, Fukuoka wan.

" 127, Hirado kaikyo to Shimonoseki kaikyo.

*Publication.*—Japan Pilot, 1914, page 537.

*Authority.*—Tokyo Notice No. 98 of 1919. (*H. 4396/19.*)



JAPAN—INLAND SEA, BI-SAN SETO.

*Ogi Jima—Wreck north-eastward of.*

No. 257 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1181 of 1919), are republished:—

*Position.*—At a distance of  $7\frac{1}{2}$  cables,  $60^{\circ}$  (N.  $65^{\circ}$  E. Mag.), from Ogi jima lighthouse.

Lat.  $34^{\circ} 26\frac{1}{2}'$  N., long.  $134^{\circ} 04'$  E.

*Description.*—Sunken wreck of the S.S. *Naoetsu Maru*.

*Variation.*— $5^{\circ}$  W.

*Charts affected*—No. 1969, Ozuchi jima to Funokosima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 93 of 1919. (H. 4392/19.)

CHINA SEA—FORMOSA, NORTH COAST.

*Kiirun Ko, Banjintai Bi Lighthouse—Fog-signal established.*

No. 258 (third publication).—The following particulars, etc., relative to the above issued by the British Admiralty (No. 1185 of 1919), are republished:—

*Position.*—Banjintai Bi lighthouse, lat.  $25^{\circ} 09\frac{1}{2}'$  N., long.  $121^{\circ} 44\frac{1}{2}'$  E.

*Description.*—A fog-gun.

*Details.*—When a vessel's fog-signals are heard by the lighthouse-keeper, three blank shots will be fired from the fog-gun with an interval of three minutes between them. Should the vessel's signals continue to be heard the firing of the gun will be repeated in a similar manner after an interval of six minutes.

*Note.*—The note "Fog-gun (Occasl.);" is to be placed against this light on the charts.

*Charts affected.*—No. 2618, Kiirun ko.

„ 3658, Auran road to So o wan.

„ 1761, Ockseu islands to Tung yung.

„ 1968, Formosa island and strait.

„ 2412, Amoy to Nagasaki.

„ 1262, Hongkong to Gulf of Lian-tung.

*Publications.*—List of Lights, Part VI, 1919, No. 1841.

China Sea Pilot, Vol. V, 1912, page 230.

*Authority.*—Tokyo Notice No. 55 of 1919. (H. 4027/19.)

KOREA—SOUTH-EAST COAST.

*Fusan Harbour—Alterations in Buoyage.*

No. 259 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1186 of 1919), are republished:—

(a) Pupon Kutsu light-buoy established in place of buoy:

*Position.*—At a distance of 2 cables,  $23^{\circ}$  (N.  $28^{\circ}$  E. Mag.), from Uno se lighthouse, and about 80 yards eastward from the position formerly occupied by the red conical buoy with triangular topmark, which has been withdrawn.

Lat.  $35^{\circ} 06\frac{1}{2}'$  N., long.  $129^{\circ} 04'$  E.

*Description.*—A spherical light-buoy painted red, exhibiting a flashing white light every three seconds.

(b) Alteration in description of Kioshi Sho light-buoy:



*Position.*—At a distance of 3 cables,  $167^{\circ}$  (S.  $8^{\circ}$  E. Mag.), from Uno se lighthouse.

Lat.  $35^{\circ} 06\frac{1}{2}'$  N., long.  $129^{\circ} 04'$  E.

*New description.*—A spherical light-buoy painted black, exhibiting a *flashing green light every three seconds*.

(c) Alteration in light on Puppai reef light-buoy :

*Position.*—At the southern extremity of Puppai reef.

Lat.  $35^{\circ} 06\frac{1}{2}'$  N., long.  $129^{\circ} 04\frac{1}{2}'$  E.

*Alteration.*—The flashing green light on this light-buoy has been replaced by a *flashing red light every three seconds*.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1259, Fusan harbour.

„ 3666, Fusan harbour to Chukupen bay.

„ 3366, Fusan harbour to Port Hamilton.

*Publication.*—E. C. Korea, etc., Pilot, 1913, page 77 ; Revised Supplement (2), 1918.

*Authority.*—Chosen Notice No. 59 of 1919. (H. 3994-19.)

#### NORTH PACIFIC OCEAN—CAROLINE ISLANDS.

*Helen Reef—Non-existence of Reef reported eastward of.*

No. 260 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1201 of 1919), are republished :—

*Position on charts.*—At a distance of about 45 miles eastward of Helen reef.

Lat.  $2^{\circ} 49'$  N., long.  $132^{\circ} 30'$  E.

*Description.*—A reef, marked “P.D. (1889)” on the charts, reported by the British barque *Transit*.

*Remarks.*—A reliable search has failed to reveal any trace of the existence of the above reef ; the reef is to be expunged from the charts accordingly.

*Charts affected.*—No. 781, Pacific ocean—north-west sheet.

„ 2683, Pacific ocean.

„ 2483, Atlantic and Indian oceans, etc.

„ 2937, Oceanic soundings, Indian and Western Pacific oceans.

*Publication.*—Pacific Islands, Vol. I, 1908, page 422.

*Authority.*—Tokyo Notice No. 90 of 1919. (H. 4391-19.)

#### JAPAN—SHIMONOSEKI KAIKYO.

*Shimonoseki Ko—Existence of Wreck.*

No. 261 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1206 of 1919), are republished :—

*Position.*—At a distance of 9 cables,  $37^{\circ}$  (N.  $42^{\circ}$  E. Mag.), from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56\frac{1}{2}'$  E.

*Description.*—Sunken wreck of the sailing vessel *Daiku Shinei Maru* with mast showing about 7 feet above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 84 of 1919. (H. 4033/19)



JAPAN—HONSHŪ, NORTH-WEST COAST.

*Maizuru Harbour Approach—Obstruction removed.*

No. 262 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1214 of 1919), are republished:—

*Former Notice.*—No. 694 of 1919. (*This office No. 143 of 1919.*)

*Position.*—Bakuchi misaki 424-foot  $\Delta$ , lat.  $35^{\circ} 33\frac{1}{2}'$  N., long.  $135^{\circ} 20\frac{1}{2}'$  E.

*Details.*—The obstruction, the western end of which was formerly situated at a distance of about  $10\frac{1}{2}$  cables, north-eastward, from Bakuchi misaki 424-foot  $\Delta$ , has been removed.

The obstruction extended in an easterly direction from the above position for a distance of about 135 yards and was marked by buoys and red flags.

*Note.*—The obstruction and the note "Obstruction laid, marked by buoys and red flags (1918)", shown on the charts are to be expunged.

*Charts affected.*—No. 61, Plan of Miyadsu harbour and Port Ine.  
 „ 2174, Amarube zaki to Ando zaki.  
 „ 1495, Aburatani bay to Ando zaki.

*Publication.*—Japan Pilot, 1914, page 620.

*Authority.*—Tokyo Notice No. 108 of 1919. (*H. 4780/19.*)

JAPAN—INLAND SEA.

(1) *Kurushima Kaikyo, Sei Suido—Existence of Rocks.*

(2) *Aki Nada, Kami Kama Gari Shima—Existence of rock eastward of.*

No. 263 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1241 of 1919), are republished:—

(1) **Kurushima Kaikyo, Sei Suldo.**

(a) *Position.*—At a distance of  $2\frac{1}{10}$  cables,  $93^{\circ}$  (*S.  $82^{\circ}$  E. Mag.*), from the 318-ft. summit of Ito Yama.

Lat.  $34^{\circ} 06\frac{1}{2}'$  N., long.  $132^{\circ} 58\frac{1}{2}'$  E.

*Depth.*— $3\frac{1}{2}$  fathoms, where  $6\frac{1}{2}$  fathoms was hitherto shown on the chart.

*Remarks.*—This rock is known by the name "Oise no Iwa".

(b) *Position.*—At a distance of  $4\frac{1}{10}$  cables,  $219^{\circ}$  (*S.  $44^{\circ}$  W. Mag.*), from Usu Bana, the southern extreme of Uma Shima island.

Lat.  $34^{\circ} 06\frac{1}{2}'$  N., long.  $132^{\circ} 58\frac{1}{2}'$  E.

*Depth.*—3 fathoms, where  $4\frac{1}{2}$  fathoms was hitherto shown on the chart.

*Remarks.*—This rock is known by the name "Mukuri".

*Note.*—The above positions refer to chart No. 131.

(2) **Aki Nada, Kami Kama Gari Shima.**

*Position.*—At a distance of  $4\frac{1}{2}$  cables,  $31^{\circ}$  (*N.  $36^{\circ}$  E. Mag.*), from the extremity of Mi Saki.

Lat.  $34^{\circ} 11\frac{1}{2}'$  N., long.  $132^{\circ} 45\frac{1}{2}'$  E.

*Details.*—A rock which dries 9 feet at low water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 131, Kurusima no seto.

„ 3325, Channels between Neko seto and Mekari seto.

„ 83, Gogo shima to Miyo shima.

*Publication.*—Japan Pilot, 1914, pages 333, 359.

*Authority.*—Tokyo Notices Nos. 114 and 115 of 1919. (*H. 4785/19.*)



## JAPAN, INLAND SEA—GULF OF OSAKA.

(1) *Ayashi No Seto*—Existence of Wreck.(2) *Kobe Approach*—Existence of Wreck.

No. 264 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1255 of 1919), are republished :—

(1) *Ayashi No Seto*.

*Position*.—At a distance of  $3\frac{1}{2}$  cables,  $300^{\circ}$  (*N.  $55^{\circ}$  W. Mag.*), from Ye Saki lighthouse.

Lat.  $34^{\circ} 36\frac{1}{2}'$  N., long.  $134^{\circ} 59'$  E.

*Description*.—Sunken wreck of S.S. *Daini Tosei Maru*.

(2) *Kobe Approach*.

*Position*.—At a distance of  $7\frac{1}{2}$  cables,  $134^{\circ}$  (*S.  $41^{\circ}$  E. Mag.*), from Wada Misaki lighthouse.

Lat.  $34^{\circ} 38\frac{1}{2}'$  N., long.  $135^{\circ} 11\frac{1}{2}'$  E.

*Description*.—Sunken wreck of S.S. *Fuku Maru*, over which there is a depth of 5 fathoms.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 2265, Kobe and Hyogo bays.

„ 16, Kobe and Osaka.

„ 3556, Izumi nada and Harima nada.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority*.—Tokyo Notices Nos. 109 and 127 of 1919. (*H. 4788/19.*)

## JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

*Ganryu Jima Lighthouse*—Wreck north-eastward of, to be expunged from Charts ; Existence of Wreck southward of.

No. 265 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1259 of 1919), are republished :—

*Former Notice*.—No. 1035 of 1919. (*This office No. 216 of 1919.*)

## 1. Wreck north-eastward of, to be expunged from charts :

*Position*.—At a distance of 24 cables, north-eastward, from Ganryu jima lighthouse.

Lat.  $33^{\circ} 56\frac{1}{2}'$  N., long.  $130^{\circ} 56'$  E.

*Description*.—Wreck of the S.S. *Fusa Maru*.

*Remarks*.—This wreck has drifted ashore near Ganryu jima lighthouse and is to be expunged from the charts.

## 2. Existence of wreck southward of :

*Position (approximate)*.—At a distance of  $3\frac{1}{10}$  cables,  $192^{\circ}$  (*S.  $17^{\circ}$  W. Mag.*), from Ganryu jima lighthouse.

*Description*.—Sunken wreck of the small sailing vessel *Nadayoshi Maru*.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 3114, Moji and Shimonoseki ko.

„ 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

*Authority*.—Tokyo Notices Nos. 107 and 126 of 1919. (*H. 4778 & 4787/19.*)



JAPAN, INLAND SEA—SUWO NADA.

*Maruyama Zaki—Wreck south-eastward of.*

No. 266 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1260 of 1919), are republished :—

*Position (approximate).*—At a distance of about 3 miles southward from Saba Shima.

Lat.  $33^{\circ} 54' 57''$  N., long.  $131^{\circ} 30' 47''$  E.

*Description.*—Sunken wreck of the sailing vessel *Kinej Maru*, with one mast showing above water.

*Charts affected.*—No. 3153, Maruyama zaki to Ominase.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 83 of 1919. (H. 4032/19).

JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

*Hayatomo Seto—Existence of Wreck.*

No. 267 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1261 of 1919), are republished :—

*Position (approximate).*—At a distance of  $3\frac{3}{10}$  cables,  $153^{\circ}$  (S.  $22^{\circ}$  E. Mag.), from Dan no Ura lighthouse.

Lat.  $33^{\circ} 58'$  N., long.  $130^{\circ} 58'$  E.

*Description.*—Sunken wreck of the sailing vessel *Suwa Gawa Maru* with masts showing above water.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

„ 3225, Shimonoseki kaikyo to Maruyama zaki.

*Authority.*—Tokyo Notice No. 129 of 1919. (H. 4790/19.)

GULF OF ADEN.

*Berbera—Mooring Buoy Sunk.*

No. 268 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 57M. of 1919), are republished :—

*Position.*—At a distance of about 330 yards,  $6^{\circ}$  (N.  $7^{\circ}$  E. Mag.) from Shaab Pier head.

*Details.*—The Master of S.S. *Falcon* reports the white mooring buoy in the above position, having sunk.

*Variation.*— $1^{\circ}$  W.

*Chart affected.*—No. 3530, Berbera.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 445. Supplement No. 3, 1916.

*Authority.*—The Port Officer, Aden, dated 16th July 1919.

GULF OF ADEN—BRITISH SOMALILAND.

*Zeila Roadstead—Buoyage Unreliable.*

No. 269 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 58M. of 1919) are republished :—

*Subject.*—The Masters of the S.S. *Falcon* and S.S. *Woodcock* report that the following buoys in Zeila roadstead are out of position and missing :—

(1) Buoy missing :

*Position.*—Off the eastern edge of Aibat island reef at a distance of about  $3\frac{1}{2}$  miles, eastward from Aibat island beacon.

*Details.*—A red conical buoy.



(2) Buoy out of position:

*Position.*—At a distance of about  $\frac{1}{2}$  mile, north-north-westward of the northern edge of Shab Filfil reef.

*Details.*—A black conical buoy, surmounted by a staff and a white drum, now lies about one cable inside the northern limit of the reef.

*Charts affected.*—No. 919, Zeila roadstead.

„ 253, Jebel Jan to Shab Kulangarit.

„ 8a, Red Sea, Sheet V.

„ 6b, Gulf of Aden, western portion.

*Publication.*—Gulf of Aden Pilot, 1909, pages 436, 437.

Supplement No. 3, 1916.

*Authority.*—The Port Officer, Aden, dated 16th July 1919.

W. K. THYNE, COMDR., R.L.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, SEPTEMBER 24, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 15th September 1919.

#### JAPAN, INLAND SEA—BISAN SETO.

*Ozuchi Jima—Non-existence of Wreck south-eastward of.*

No. 279 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1311 of 1919), are republished:—

*Former Notice.*—No. 829 of 1917. (*This office No. 265 of 1917.*)

*Position on charts.*—At a distance of about one mile south-eastward from Ozuchi jima summit.

Lat.  $34^{\circ} 24' N.$ , long.  $133^{\circ} 56' E.$

*Remarks.*—The wreck shown in the above position is to be expunged from the charts.

*Variation.*— $5^{\circ} W.$

*Charts affected.*—No. 128, Channels between Bingo nada and Ozuchi jima.

„ 1969, Ozuchi jima to Funoko sima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 141 of 1919. (*H. 4877/19.*)

#### JAVA, NORTH COAST.

*Semarang Bay—Existence of Shoal.*

No. 280 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1318 of 1919), are republished:—

*Position.*—At a distance of  $2\frac{1}{10}$  miles,  $336^{\circ}$  (*N.  $25^{\circ} W.$  Mag.*) from Semarang lighthouse.

Lat.  $6^{\circ} 55' S.$ , long.  $110^{\circ} 23' E.$

*Depth.*—3 fathoms.



*Caution.*—Pending further information vessels are advised not to pass to the westward of a line drawn parallel to, and 5½ cables westward from, the axis of the dredged channel.

*Variation.*—1° E.

*Charts affected.*—No. 932, Plan of Semarang bay.

„ 1653, Island of Java—western portion.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 117.

*Authority.*—Hague Notice No. 1321 of 1919. (H. 4904/19.)

#### JAPAN, INLAND SEA—IYO NADA.

*Sago No Seto*—Non-existence of Wreck; Buoy and Light withdrawn.

No. 281 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1319 of 1919), are republished:—

*Former Notice.*—No. 1004 of 1919. (This office No. 210 of 1919.)

*Position.*—At a distance of about half a mile southward from Sago shima 370-foot summit.

Lat. 33° 51½' N., long. 132° 03½' E.

*Remarks.*—The wreck in the above position and the note “Marked by buoy and Lt. (posn. approx.)” are to be expunged from the charts.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 134 of 1919. (H. 4868/19.)

#### JAPAN—INLAND SEA, SUWO NADA.

*He Saki*—Wreck south-eastward of.

No. 282 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1320 of 1919), are republished:—

*Position (approximate).*—At a distance of about 2½ miles south-eastward of He Saki lighthouse.

Lat. 33° 56' 00" N., long. 131° 03' 00" E.

*Description.*—Sunken wreck of the sailing vessel *Nadayoshi Maru*.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 158 of 1919. (H. 5024/19.)

#### JAPAN—HONSHŪ, ABURATANI HARBOUR APPROACH.

*Kawajiri Misaki*—Non-existence of Wreck eastward of.

No. 283 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1324 of 1919), are republished:—

*Position.*—At a distance of about 6½ cables eastward from the north-east extreme of Kawajiri misaki.

Lat. 34° 26½' N., long. 130° 59' E.

*Remarks.*—This wreck is to be expunged from the charts.

*Charts affected.*—No. 457, Aburatani harbour.

„ 3617, Yume zaki to Modoro zaki.

„ 2875, Naikai (Seto uchi).

„ 1495, Aburatani bay to Andô zaki.

„ 358, Western coasts of Kiusiu and Nipon.

*Authority.*—Tokyo Notice No. 133 of 1919. (H. 4867/19.)



MALACCA STRAIT—PENANG HARBOUR APPROACH.

*North Channel—Light-Buoy withdrawn.*

No. 284 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1325 of 1919), are republished:—

*Position*.—At a distance of about 3½ miles northward from the white obelisk on Pulo Tikus.

Lat.  $5^{\circ} 31\frac{1}{2}'$  N., long.  $100^{\circ} 16\frac{1}{2}'$  E.

*Description*.—A light-buoy formerly exhibiting an occulting red light.

*Remarks*.—The above light-buoy has been withdrawn and is to be expunged from the charts.

*Charts affected*.—No. 1366, Penang harbour and approaches.  
793, Butang group to Pulo Berhala.

*Publication*.—China Sea Pilot, Vol. I, 1916, page 177.

*Authority*.—Penang Notice No. 540 of 1919. (*H. 4844/19.*)

SUMATRA, EAST COAST—LINGA ISLAND.

*Kentar Island—Light established.*

No. 285 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1331 of 1919), are republished:—

*Position*.—On the eastern end of Kentar island.

Lat.  $0^{\circ} 02' 00''$  N., long.  $104^{\circ} 47' 00''$  E.

*Abridged description*.—Lt. Gp. Fl. (3), ev. 10 sec., vis. 26 m.

*Characteristics:*

*Character*.—A group flashing white light showing three flashes in quick succession every ten seconds.

*Elevation*.—Not stated.

*Visibility*.—26 miles.

*Structure*.—Not stated.

*Charts affected*.—No. 1789, Channels between Sumatra, Linga and Singkep.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago—sheet I.

„ 2660a, China sea, southern portion—western sheet.

„ 1263, China sea.

*Publications*.—List of Lights, Part VI, 1919, No. 998a.  
China Sea Pilot, Vol. II, 1915, page 249.

*Authority*.—Hague Notice No. 1371 of 1919. (*H. 5027/19.*)

BORNEO, WEST COAST.

*Panebangan Island—Decreased Depths reported north-eastward of.*

No. 286 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1332 of 1919), are republished:—

*Position*.—In the Inner channel.

Lat.  $1^{\circ} 11' 00''$  S., long.  $109^{\circ} 18' 20''$  E.



*Details.*—The following cautionary note with regard to decreased depths recently reported is to be inserted in the vicinity of the above position on the charts :—“ *From one to 1½ fathoms less water repd. (1919).*”

*Charts affected.*—No. 3758, Tanjong Beras Basah to Masa Tiga island.

„ 2160, Carimata strait.

„ 941a, Eastern archipelago—sheet I.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 219.

*Authority.*—Hague Notice No. 1238 of 1919. (H. 4601/19.)

### CHINA, NORTH-EAST COAST.

#### *Chifu (Yentai) Inner Harbour—Alterations in Lighting.*

*No. 287 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1350 of 1919), are republished :—

*Former Notice*—No. 915 of 1918. (This Office No. 314 of 1918).

#### 1. Light established :

*Position.*—On the northern end of the breakwater under construction.

Lat.  $37^{\circ} 33\frac{1}{2}'$  N., long.  $121^{\circ} 23\frac{1}{2}'$  E.

*Abridged description.*—Lt. Fl.

#### Characteristics :

*Character.*—A flashing white light every three seconds, thus :—

Flash.	eclipse.
$\frac{1}{2}$ sec.	$2\frac{1}{2}$ secs.

*Elevation.*—18 feet.

*Structure.*—A black iron trestle.

*Remarks.*—This light marks the eastern side of the northern entrance to the inner harbour.

#### 2. Light-buoy withdrawn :

*Position.*—At a distance of about 1½ cables northward from the northern end of the breakwater under construction.

*Description.*—A light-buoy painted black, formerly exhibiting a flashing white light.

*Remarks.*—This light-buoy, which has been withdrawn, is to be expunged from the charts.

#### 3. Alteration in light on light-buoy :

*Position.*—Off the eastern end of the mole under construction.



**Alteration.**—The occulting red light on this light-buoy has been replaced by a *flashing red light every three seconds*, thus :—

Flash,	eclipse.
10 sec.	2½ secs.

**Remarks.**—This light-buoy marks the western side of the northern entrance to the inner harbour.

**Chart affected.**—No. 1260, Ching tsu shan to Chifu bluff.

**Publications.**—List of Lights, Part VI, 1919, No. 1642a.

China Sea Pilot, Vol. V. 1912, pages 465, 466 ;  
Revised Supplement (II), 1918.

**Authority.**—Shanghai Notice No. 679 of 12th May 1919. (H. 5018/19.)

*The 8th September 1919.*

AUSTRALIA, EAST COAST—INNER BARRIER ROUTE.

**North Barnard Islands Light**—*Intended alteration in character.*

No. 276 (second publication).—

**Subject.**—The Fixed White Light on North Barnard Islands (Kent Island) will be replaced by a *Flashing White Light*, on or about 1st December 1919.

**Position.**—On Kent Island.

Lat. 17° 40½' S., long. 146° 11' E., on chart No. 2350.

**Details.**—The Fixed White Light will be replaced by a New Light having the undermentioned characteristics :—

**Character.**—*Flashing White Light*, showing one flash every five seconds thus :—

Flash	Eclipse
½ sec.	4½ secs.

**Remarks.**—The light will be unwatched and the Lightkeeper withdrawn. The other details of the light will remain unchanged.

**Charts affected.**—No. 2350, Double Point to Cape Grafton.

„ 2349, Magnetic Island to Double Point.

„ 2763, Coral Sea and Great Barrier Reefs, sheet 1.

„ 2759a, Australia, Northern portion.

„ 780, Pacific Ocean, South-west sheet.

**Publications.**—List of Lights and Time Signals, Part VI, 1919, No. 2717.

Australia Pilot, Vol. IV., 1917, page 188.

**Authority.**—Melbourne Notice No. 10 of 1919.



## PERSIAN GULF—BANDAR ABBAS.

*Mooring Buoy Withdrawn.*

No. 277 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 60M. of 1919), are republished :—

Former Notice R. I. M. No. 21-M of 1919. (*This office No. 98 of 1919.*)

*Position.*—At a distance of about 2 miles and 8 cables  $133\frac{1}{2}^{\circ}$  (S.  $48\frac{1}{2}^{\circ}$  E. Mag.) from British Consulate Flag Staff in 24 feet L.W.O.S.

Lat.  $27^{\circ} 9' 46''$  N.

Long.  $56^{\circ} 19' 59''$  E.

*Details.*—Information dated 14th August 1919 has been received from the Naval Transport Officer, Bundar-Abbas that the red mooring buoy in the above position was removed on the 14th August 1919.

*Variation.*— $2^{\circ}$  E.

*Charts affected.*—No. 3599, Plans in the Persian Gulf.

" 753, Entrance to the Persian Gulf.

*Publication.*—Persian Gulf Pilot, 1915, page 202.

*Authority.*—Director of the Royal Indian Marine. Dated 16th August 1919.

## INDIA, WEST COAST.

*Vengurla Port—Alteration in period of Exhibition of Lights.*

No. 278 (second publication).—The following particulars etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 61M. of 1919), are republished :—

*Position.*—Lat.  $15^{\circ} 51'$  N., long.  $73^{\circ} 36'$  E.

*Details.*—The period of exhibition of the two vertical fixed white lights, exhibited from a mast above the roof of a house, one mile west of the town, on Vengurla point, will be for 9 months only, viz., from 1st September to the 31st May in each year, commencing from the year 1919. During the remainder of the year, no light will be shewn.

*Charts affected.*—No. 902, Malvan to Vengurla with plan.

" 740, Achra river to Cape Ramas.

" 2736, Gulf of Kutch to Viziadurug.

" 827, Vengurla to Cape Comorin.

" 826, Karachi to Vengurla.

*Publications.*—Admiralty List of Lights, Part VI, 1919, No. 418. Indian Light List, 37th Issue, 1918 No. 118, West Coast of India Pilot, 1909, page 182.

*Authority.*—The Deputy Commissioner of Salt and Excise, Southern Division, Dhárwar, No. 125, dated 14th August 1919.

*The 30th August 1919.*

## EASTERN ARCHIPELAGO—FLORES SEA, TANAH JAMPEA.

*Tanah Malallo—Reef northward of.*

No. 270 third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1273 of 1919), are republished :—

*Position.*—Lat.  $7^{\circ} 04' 05''$  S., long.  $120^{\circ} 35' 25''$  E.

*Depth.*— $2\frac{1}{2}$  fathoms, coral and stones.



*Remarks.*—The reef is about half a cable in extent.

*Charts affected.*—No. 935, Plan of Tanah Jampea.

„ 1696, Lombok to Flores.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 318.

*Authority.*—Hague Notice No. 1410 of 1918. (*H.* 6284/18.)

#### JAPAN—HOKUSHU. SOUTH COAST.

##### *Hakodate Ko—Prohibited Anchorage abolished.*

No. 271 (*third publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1274 of 1919), are republished:—

*Position.*—Benten zaki, lat.  $41^{\circ} 46'$  N., long.  $140^{\circ} 42'$  E.

*Details.*—Vessels are no longer prohibited from anchoring within the semicircular area shown on the chart northward of Benten zaki breakwater.

The limits of this area are to be expunged from the chart together with the note "Vessels not to anchor within these limits."

*Chart affected*—No. 2672, Hakodate ko.

*Publication.*—Japan Pilot, 1914, page 681.

*Authority.*—Tokyo Notice No. 140 of 1919. (*H.* 4876/19.)

#### JAPAN—INLAND SEA.

##### *Kuka wan—Non-Existence of Wrecks north-eastward of.*

No. 272 (*third publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1281 of 1919), are republished:—

Position on charts.

(a) Lat.  $33^{\circ} 58' 00''$  N., long.  $132^{\circ} 17' 30''$  E.

(b) Lat.  $33^{\circ} 58' 27''$  N., long.  $132^{\circ} 18' 00''$  E.

*Remarks.*—The above wrecks, marked "(posn. approx.)," are to be expunged from the charts.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 3469, Hiroshima wan.

„ 2875, Naikai (Seto uchi).

*Authority.*—Tokyo Notice No. 132 of 1919. (*H.* 4793/19.)

#### JAPAN—KIU-SIU, NORTH COAST

##### *Fukuoka Wan—Amended Position of Rock; Shoal Depth.*

No. 273 (*third publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1282 of 1919), are republished:—

(1) Amended position of rock:

*Former Notice.*—No. 1180 of 1919. (*This office No. 256 of 1919.*)

*Position.*—At a distance of about four-tenths of a cable southward of position given in former Notice and  $5\frac{7}{10}$  cables,  $269^{\circ}$  (N.  $87^{\circ}$  W. *Mag.*), from 504-foot summit of Nokono shima.

Lat.  $33^{\circ} 37'$  N., long.  $130^{\circ} 17'$  E.

*Description.*—A 2-fathom rock; this rock is known as "Miyama Dashi."

(2) Shoal depth:

*Position.*—At a distance of  $3\frac{1}{2}$  cables,  $212^{\circ}$  (S.  $36^{\circ}$  W. *Mag.*), from Zo Ze (Hasira sima).

Lat.  $33^{\circ} 37\frac{1}{2}'$  N., long.  $130^{\circ} 17'$  E.



*Depth.*—5½ fathoms, rock.  
*Variation.*—4° W.  
*Charts affected.*—No. 3511, Fukuoka wan.  
 „ 127, Hirado kaikyo to Shimonoseki kaikyo.  
*Publication.*—Japan Pilot, 1914, pages 537, 538.  
*Authority.*—Tokyo Notice No. 135 of 1919. (H. 4869/19.)

## JAPAN—INLAND SEA.

*Mihara Seto Approaches—Existence of Rocks.*

*No. 274 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1292 of 1919), are republished :—

- (a) *Position.*—Off the northern end of Kone jima.  
 Lat. 34° 19' 54" N., long. 133° 04' 02" E.  
*Depth.*—2 fathoms.
- (b) *Position.*—In the channel northward of Ikuchi jima.  
 Lat. 34° 19' 00" N., long. 133° 07' 15" E.  
*Depth.*—Less than 6 feet.
- (c) *Position.*—In the channel eastward of Sa shima.  
 Lat. 34° 14' 47" N., long. 133° 11' 36" E.  
*Depth.*—Less than 6 feet.
- (d) *Position.*—Off the southern end of Yuge shima.  
 Lat. 34° 14' 17" N., long. 133° 11' 45" E.  
*Depth.*—Less than 6 feet.

*Chart affected.*—No. 3325, Channels between Neko seto and Mekari seto.

*Publication.*—Japan Pilot, 1914, pages 337, 342, 344.

*Authority.*—Tokyo Notice No. 113 of 1919. (H. 4784/19.)

## BAY OF BENGAL—CHITTAGONG COAST.

*Chittagong (Karnafuli) river—Leading marks over Inner Bar and depth of water.*

*No. 275-I (third publication).*—

*Subject.*—A new mark Batten-beacon painted white in line with Coomb's Pillar has been placed in the following position for the use of Mariners :—

Coomb's Pillar	... 52° 35' (N. 52° E. Mag.)
Juldia Flagstaff	... 170° 50' (S. 9° 45' E. Mag.)

*Inner Bar* :—Batten-beacon and Coomb's Pillar, 9'-6".

*Variation.*—0° 35' E.

*Chart affected.*—No. 84, Chittagong (Karnafuli) river.

*Publication.*—Bay of Bengal Pilot, 1910, page 322.

*Authority.*—Port Officer, Chittagong, Notice dated 27th August 1919.

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 1. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 22nd September 1919.

#### CHINA, EAST COAST—HONGKONG HARBOUR APPROACH.

##### *Bokhara Rocks—Alteration in Position of Buoy.*

*No. 288 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1362 of 1919), are republished :—

*New position.*—At a distance of about 2 cables eastward from former position, and  $1\frac{1}{10}$  cables,  $101^{\circ}$  (*S.  $79^{\circ}$  E. Mag.*), from the centre of the  $2\frac{1}{2}$ -fathom head on Bokhara rocks.

Lat.  $22^{\circ} 12\frac{1}{2}'$  N., long.  $114^{\circ} 16\frac{1}{2}'$  E.

*Description.*—A black and white chequered buoy.

*Remarks.*—This buoy was not hitherto shown on chart No. 3026 and is to be inserted.

*Variation.*—Nil.

*Charts affected.*—No. 1466, Hongkong.

„ 3605, Hongkong to Mirs bay.

„ 1180, Approaches to Hongkong.

„ 3026, Macao to Pedro Blanco, including Hongkong.

„ 1962, Hongkong to the Brothers.

*Publication.*—China Sea Pilot, Vol. III, 1912, page 496.

*Authority.*—Harbour Master, Hongkong. (*H. 5549/12.*)



## JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.

*Hayatomo Seto—Non-Existence of Wreck.*

No. 289 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1363 of 1919), are republished :—

*Former Notice.*—No. 1261 of 1919. (This office No. 267 of 1919.)

*Position.*—At a distance of about  $3\frac{1}{2}$  cables, south-eastward from Dan no Ura lighthouse.  
Lat.  $33^{\circ} 58' N.$ , long.  $130^{\circ} 58' E.$

*Description.*—Wreck of the sailing vessel *Suwa Gawa Maru*.

*Remarks.*—The wreck has drifted away and is to be expunged from the charts.

*Charts affected.*—No 1578, Shimonoseki kaikyo.  
„ 532, Approach to Shimonoseki kaikyo.  
„ 3225, Shimonoseki kaikyo to Maruyama zaki.

*Authority.*—Tokyo Notice No. 146 of 1919. (H. 5105/19.)

## JAVA—SUNDA STRAIT.

*Toppers (Button) Island—Light established.*

No. 290 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1379 of 1919), are republished :—

*Position.*—On Toppers (Button) island.  
Lat.  $5^{\circ} 54' 00'' S.$ , long.  $105^{\circ} 56' 00'' E.$

*Abridged description.*—Lt. Fl., ev. 3 sec., vis. 22 m.

*Characteristics:*

*Character.*—A flashing white light every three seconds, thus :—

Flash,	eclipse
1 sec.	2 secs.

*Visibility.*—22 miles.

*Remarks.*—Further particulars are not stated.

*Charts affected.*—No. 2056, Sunda strait and approaches.  
„ 1653, Island of Java—western portion.  
„ 941a, Eastern Archipelago—sheet I.  
„ 1263, China sea.

*Publications.*—List of Lights, Part VI, 1919, No. 864.  
China Sea Pilot, Vol. II, 1915, page 46.  
Eastern Archipelago Pilot, Part II, 1913, page 41.

*Authority.*—Hague Notice No. 1372 of 1919. (H. 5041/19.)

## BORNEO, EAST COAST.

*Sungi Berau Entrance—Information with regard to Shoals.*

No. 291 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1380 of 1919), are republished :—

## (1) Existence of shoal:

*Position.*—Lat.  $2^{\circ} 09' 00'' N.$ , long.  $118^{\circ} 10' 10'' E.$

*Depth.*—4 fathoms.



(2) Non-existence of shoal:

*Position on chart.*—Close northward of the shoal mentioned in (1) above.

Lat.  $2^{\circ} 09' 10''$  N., long.  $118^{\circ} 10' 00''$  E.

*Details.*—The shoal, shown on the chart in this position as having a depth of less than 6 feet, is to be expunged from the chart, a reliable search having failed to find any trace of its existence.

*Charts affected.*—No. 2636, North part of the Strait of Makassar.  
 „ 2660b, China sea, southern portion—eastern sheet.  
 „ 1263, China sea.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 430.

*Authority.*—Hague Notice No. 1512 of 1919. (H. 5400/19.)

CHINA SEA—CARIMATA STRAIT.

*Billiton Island, East Coast—Existence of Reefs.*

*No. 292 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1381 of 1919), are republished:—

*Former Notice.*—No. 1143 of 1919. (This office No. 248 of 1919.)

*Position.*—At a distance of about  $2\frac{1}{2}$  miles south-eastward of Mampirak.

Lat.  $2^{\circ} 43' 46''$  S., long.  $108^{\circ} 28' 46''$  E.

*Depth.*—Less than 6 feet.

*Remarks.*—The reefs are three in number and extend for a distance of about 3 cables. The position given above is that of the centre reef.

*Note.*—The note with regard to discoloured water reported in the former Notice, about half a mile westward of the above position, is to be expunged from chart No. 2160.

*Charts affected.*—No. 2160, Carimata strait.

„ 941a, Eastern Archipelago, sheet I.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 209; Revised Supplement (2), 1919.

*Authority.*—Hague Notice No. 1509 of 1919. (H. 5397/19.)

JAVA—SURABAYA STRAIT, EASTERN ENTRANCE.

*Jansen Channel—No. 1 Buoy withdrawn*

*No. 293 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1383 of 1919), are republished:—

*Position.*—Lat.  $7^{\circ} 21\frac{1}{4}'$  S., long.  $112^{\circ} 54'$  E.

*Description.*—A black buoy with truncated cone topmark.

*Remarks.*—The buoy has been withdrawn and is to be expunged from the chart.

*Chart affected.*—No. 934 Surabaya strait.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 140.

*Authority.*—Hague Notice No. 1514 of 1919. (H. 5402/19.)



## SUMATRA, EAST COAST—BANKA ISLAND, NORTH-EAST COAST.

*Marawang Road Approach—Existence of a Shoal.*

No. 294 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1384 of 1919), are republished:—

*Position*.—Close eastward of the 5-fathom shoal situated about 2½ miles westward of General Elliot reef light.  
Lat. 2° 03' 54" S., long. 106° 17' 36" E., on chart No. 2597.

*Depth*.—Not stated.

*Remarks*.—A note "*Shoal water repd. (1919)*" is to be inserted on the chart on the eastern side of the 5-fathom shoal above referred to.

*Charts affected*.—No. 2597, Banka strait.  
" 2149, Banka and Gaspar straits.

*Publication*.—China Sea Pilot, Vol. II, 1915, page 177.

*Authority*.—Hague Notice No. 1515 of 1919. (*H. 5403/19.*)

The 15th September 1919.

## JAPAN, INLAND SEA—BISAN SETO.

*Ozuchi Jima—Non-existence of Wreck south-eastward of.*

No. 279 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1311 of 1919), are republished:—

*Former Notice*.—No. 829 of 1917. (*This office No. 265 of 1917.*)

*Position on charts*.—At a distance of about one mile south-eastward from Ozuchi jima summit.  
Lat. 34° 24' N., long. 133° 56' E.

*Remarks*.—The wreck shown in the above position is to be expunged from the charts.

*Variation*.—5° W.

*Charts affected*.—No. 128, Channels between Bingo nada and Ozuchi jima.  
" 1969, Ozuchi jima to Funoko sima.  
" 2873, Naikai (Seto uchi) or Inland sea.

*Authority*.—Tokyo Notice No. 141 of 1919. (*H. 4877/19.*)

## JAVA, NORTH COAST.

*Semarang Bay—Existence of Shoal.*

No. 280 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1318 of 1919), are republished:—

*Position*.—At a distance of 2½ miles, 336° (N. 25° W. Mag.) from Semarang lighthouse.  
Lat. 6° 55½' S., long. 110° 23½' E.

*Depth*.—3 fathoms.

*Caution*.—Pending further information vessels are advised not to pass to the westward of a line drawn parallel to, and 5½ cables westward from, the axis of the dredged channel.

*Variation*.—1° E.

*Charts affected*.—No. 932, Plan of Semarang bay.  
" 1653, Island of Java—western portion.

*Publication*.—Eastern Archipelago Pilot, Part II, 1913, page 117.

*Authority*.—Hague Notice No. 1321 of 1919. (*H. 4904/19.*)



JAPAN, INLAND SEA—IYO NADA.

*Sago No Selo—Non-existence of Wreck; Buoy and Light withdrawn.*

*No. 231 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1319 of 1919), are republished :—

*Former Notice.*—No. 1004 of 1919. (*This office No. 210 of 1919.*)

*Position.*—At a distance of about half a mile southward from Sago shima 370-foot summit.

Lat.  $33^{\circ} 51\frac{1}{2}'$  N., long.  $132^{\circ} 03\frac{1}{2}'$  E.

*Remarks.*—The wreck in the above position and the note "Marked by buoy and Lt. (posn. approx.)" are to be expunged from the charts.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 134 of 1919. (*H. 4368/19.*)

JAPAN—INLAND SEA, SUWO NADA.

*He Saki—Wreck south-eastward of.*

*No. 282 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1320 of 1919), are republished :—

*Position (approximate).*—At a distance of about  $2\frac{1}{2}$  miles south-eastward of He Saki lighthouse.

Lat.  $33^{\circ} 56' 00''$  N., long.  $131^{\circ} 03' 00''$  E.

*Description.*—Sunken wreck of the sailing vessel *Nadayoshi Maru*.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 158 of 1919. (*H. 5024/19.*)

JAPAN—HONSHŪ, ABURATANI HARBOUR APPROACH.

*Kawajiri Misaki—Non-existence of Wreck eastward of.*

*No. 283 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1324 of 1919), are republished :—

*Position.*—At a distance of about  $6\frac{1}{2}$  cables eastward from the north-east extreme of Kawajiri misaki.

Lat.  $34^{\circ} 26\frac{1}{2}'$  N., long.  $130^{\circ} 59'$  E.

*Remarks.*—This wreck is to be expunged from the charts.

*Charts affected.*—No. 457, Aburatani harbour.

„ 3617, Yume zaki to Modoro zaki.

„ 2875, Naikai (Seto uchi).

„ 1495, Aburatani bay to Ando zaki.

„ 358, Western coasts of Kiusiu and Nipon.

*Authority.*—Tokyo Notice No. 133 of 1919. (*H. 4867/19.*)



MALACCA STRAIT—PENANG HARBOUR APPROACH.

*North Channel—Light-Buoy withdrawn.*

No. 284 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1325 of 1919), are republished:—

*Position*.—At a distance of about 3½ miles northward from the white obelisk on Pulo Tikus.

Lat. 5° 31½' N., long. 100° 16½' E.

*Description*.—A light-buoy formerly exhibiting an occulting red light.

*Remarks*.—The above light-buoy has been withdrawn and is to be expunged from the charts.

*Charts affected*.—No. 1366, Penang harbour and approaches.  
 „ 793, Batang group to Pulo Berhala.

*Publication*.—China Sea Pilot, Vol. I, 1916, page 177.

*Authority*.—Penang Notice No. 540 of 1919. (H. 4844/19.)

SUMATRA, EAST COAST—LINGA ISLAND.

*Kentar Island—Light established.*

No. 285 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1331 of 1919), are republished:—

*Position*.—On the eastern end of Kentar island.

Lat. 0° 02' 00" N., long. 104° 47' 00" E.

*Abridged description*.—Lt. Gp. Fl. (3), ev. 10 sec., vis. 26 m.

*Characteristics:*

*Character*.—A group flashing white light showing three flashes in quick succession every ten seconds.

*Elevation*.—Not stated.

*Visibility*.—26 miles.

*Structure*.—Not stated.

*Charts affected*.—No. 1789, Channels between Sumatra, Linga and Singkep.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago—sheet I.

„ 2660a, China sea, southern portion—western sheet.

„ 1263, China sea.

*Publications*.—List of Lights, Part VI, 1919, No. 998a.

China Sea Pilot, Vol. II, 1915, page 249.

*Authority*.—Hague Notice No. 1371 of 1919. (H. 5027/19.)

BORNEO, WEST COAST.

*Panebangan Island—Decreased Depths reported north-eastward of.*

No. 286 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1332 of 1919), are republished:—

*Position*.—In the Inner channel.

Lat. 1° 11' 00" S., long. 109° 18' 20" E.



*Details.*—The following cautionary note with regard to decreased depths recently reported is to be inserted in the vicinity of the above position on the charts :—“ From one to 1½ fathoms less water repd. (1919).”

*Charts affected.*—No. 3758, Tanjong Beras Basah to Masa Tiga island.

„ 2160, Carimata strait.

„ 941a, Eastern archipelago—sheet I.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 219.

*Authority.*—Hague Notice No. 1238 of 1919. (H. 4601/19.)

### CHINA, NORTH-EAST COAST.

*Chifu (Yantai) Inner Harbour—Alterations in Lighting.*

*No. 287 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1350 of 1919), are republished :—

*Former Notice.*—No. 915 of 1918. (This Office No. 314 of 1918.)

#### 1. Light established :

*Position.*—On the northern end of the breakwater under construction.

Lat.  $37^{\circ} 33\frac{1}{2}'$  N., long.  $121^{\circ} 23\frac{1}{2}'$  E.

*Abridged description.*—Lt. Fl.

*Characteristics :*

*Character.*—A *flashing white light every three seconds*, thus :—

Flash,	eclipse.
$\frac{1}{2}$ sec.	$2\frac{1}{2}$ secs.

*Elevation.*—18 feet.

*Structure.*—A black iron trestle.

*Remarks.*—This light marks the eastern side of the northern entrance to the inner harbour.

#### 2. Light-buoy withdrawn :

*Position.*—At a distance of about 1½ cables northward from the northern end of the breakwater under construction.

*Description.*—A light-buoy painted black, formerly exhibiting a flashing white light.

*Remarks.*—This light-buoy, which has been withdrawn, is to be expunged from the charts.

#### 3. Alteration in light on light-buoy :

*Position.*—Off the eastern end of the mole under construction.

*Alteration.*—The occulting red light on this light-buoy has been replaced by a *flashing red light every three seconds*, thus :—

Flash,	eclipse.
$\frac{3}{10}$ sec.	$2\frac{7}{10}$ secs.

*Remarks.*—This light-buoy marks the western side of the northern entrance to the inner harbour.

*Chart affected.*—No. 1260, Ching tau shan to Chifu bluff.

*Publications.*—List of Lights, Part VI, 1919, No. 1642a.

China Sea Pilot, Vol. V, 1912, pages 465, 466 ;  
Revised Supplement (II), 1918.

*Authority.*—Shanghai Notice No. 679 of 12th May 1919. (H. 5018/19.)



*The 8th September 1919.*

**AUSTRALIA, EAST COAST—INNER BARRIER ROUTE.**

*North Barnard Islands Light—Intended alteration in character.*

*No. 276 (third publication).—*

*Subject.*—The Fixed White Light on North Barnard Islands (Kent Island) will be replaced by a Flashing White Light, on or about 1st December 1919.

*Position.*—On Kent Island.

Lat.  $17^{\circ} 40\frac{1}{2}'$  S., long.  $146^{\circ} 11'$  E., on chart No. 2350.

*Details.*—The Fixed White Light will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—*Flashing White Light*, showing one flash every five seconds thus:—

Flash	Eclipse
$\frac{1}{2}$ sec.	$4\frac{1}{2}$ secs.

*Remarks.*—The light will be unwatched and the Lightkeeper withdrawn. The other details of the light will remain unchanged.

*Charts affected.*—No. 2350, Double Point to Cape Grafton.

„ 2319, Magnetic Island to Double Point.

„ 2763, Coral Sea and Great Barrier Reefs, sheet 1.

„ 2759a, Australia, Northern portion.

„ 780, Pacific Ocean, South-west sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2717.

Australia Pilot, Vol. IV., 1917, page 488.

*Authority.*—Melbourne Notice No. 10 of 1919.

**PERSIAN GULF—BANDAR ABBAS.**

*Mooring Buoy Withdrawn.*

*No. 277 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 60M. of 1919), are republished:—

Former Notice R. I. M. No. 21-M of 1919. (*This office No. 98 of 1919.*)

*Position.*—At a distance of about 2 miles and 8 cables  $133\frac{1}{2}^{\circ}$  (S.  $48\frac{1}{2}^{\circ}$  E. Mag.) from British Consulate Flag Staff in 24 feet L.W.O.S.

Lat.  $27^{\circ} 9' 46''$  N.

Long.  $56^{\circ} 19' 59''$  E.

*Details.*—Information dated 14th August 1919 has been received from the Naval Transport Officer, Bandar-Abbas that the red mooring buoy in the above position was removed on the 14th August 1919.

*Variation.*— $2^{\circ}$  E.

*Charts affected.*—No. 3599, Plans in the Persian Gulf.

„ 753, Entrance to the Persian Gulf.

*Publication.*—Persian Gulf Pilot, 1915, page 202.

*Authority.*—Director of the Royal Indian Marine. Dated 16th August 1919.



INDIA, WEST COAST.

*Vengurla Port—Alteration in period of Exhibition of Lights.*

No. 278 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 61M. of 1919), are republished:—

*Position.*—Lat.  $15^{\circ} 51' N.$ , long.  $73^{\circ} 36' E.$

*Details.*—The period of exhibition of the two vertical fixed white lights, exhibited from a mast above the roof of a house, one mile west of the town, on Vengurla point, will be for 9 months only, viz., from 1st September to the 31st May in each year, commencing from the year 1919. During the remainder of the year, no light will be shewn.

*Charts affected.*—No. 902, Málvan to Vengurla with plan.  
" 740, Achra river to Cape Ramas.  
" 2736, Gulf of Kutch to Viziadurug.  
" 827, Vengurla to Cape Comorin.  
" 826, Karáchi to Vengurla.

*Publications.*—Admiralty List of Lights, Part VI, 1919, No. 418, Indian Light List, 37th Issue, 1918 No. 118, West Coast of India Pilot, 1909, page 182.

*Authority.*—The Deputy Commissioner of Salt and Excise, Southern Division, Dhárwár, No. 125, dated 14th August 1919.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, OCTOBER 8, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 26th September 1919.

### WIRELESS METEOROLOGICAL INFORMATION TO AND FROM SHIPS AT SEA.

#### *General Remarks.*

*No. 295 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1393 of 1919), are republished:—

*Former Notice.*—No. 880 of 1919 hereby cancelled.

1. It is earnestly hoped that all concerned will assist in making the wireless meteorological service a success. Negotiations are now in hand to extend and unify the system of collecting weather data by wireless from ships at sea all over the world, and at the same time to organise the free transmission of weather bulletins from a sufficient number of wireless stations to admit of ships being constantly supplied with reliable weather reports and forecasts wherever they may be.

2. It should be borne in mind that the needs of ships at sea in regard to information regarding the weather will march hand in hand with the requirements of aircraft. The importance of this service will therefore be constantly increasing and its success or failure will largely depend upon the co-operation of ships at sea in providing the data without which accurate forecasting is impossible. The matter does not depend solely upon the efforts of the ships selected to furnish the data. The essence of success lies in rapidity in passing such data by wireless from the ship to the coast station, and thence to the central meteorological office. It follows, therefore, that all ships not taking an active part in supplying data should use the greatest care not to interfere with the transmission of the wireless messages to the shore.

3. The following particulars refer to the scheme now being undertaken by the British Meteorological Office. This Notice will, however, be subject to revision from time to time, and endeavours will be made to include in each revision all information available to date of the weather bulletins issued by the wireless stations of the world. Earnest endeavours are being made to obtain international agreement as to the form of these weather



bulletins and to the methods and times of transmissions. It is hoped that the messages will eventually all be made in an international code at fixed times, so arranged that a ship with only one wireless operator will be able to read them. A similar scheme for time signals is being evolved.

#### Collection of Weather Data from Ships.

4. Certain ships are being asked to supply data regularly three times a day whenever they are within a certain distance of any one of some six or eight "observation points" in the North Eastern Atlantic.

5. In addition to the regular observations, which are taken at 0100, 0700 and 1300 Greenwich time and sent as soon as possible to Malin head (GMH) or Valentia (GCK) coast stations, these ships may, on request from either of these coast stations, send special data messages at other times.

6. The procedure for a ship which intends to send a data message will be as follows:—As soon as it has been decided to make the data message (i.e., normally at about 0100, 0700 or 1300), the ship makes to "all ships" (CQ) the word "weather,"\* followed by a number which indicates the "observation point" (see paragraph 4 above), near which she is at the time.

\* Application is being made to Berne to allot an international 3-letter abbreviation to mean: "Am about to make weather data from observation point number....."

7. This warning message will not be answered by any ship or station it is merely designed—

(a) To inform all ships within range that a report is about to be made and that they should therefore avoid interfering.

(b) To inform all other ships supplying weather data, which may be in the vicinity of the same observation point, that, one ship having decided to make a report, it is unnecessary for them to make one also.

8. About 5 or 10 minutes after the ship has made the warning as above, she may be expected to transmit the data message itself. The normal or regular "data message" consists of 4 groups of 5 figures each; the special data message is of 2 groups of 5 figures each. All data messages bear the one word "weather"† as the address, and conclude with a "time of origin" of 4 figures. The message will be sent to Malin head (GMH) or Valentia (GCK), according to the position of the "observation point."

† Application is being made to Berne to allot international 3-letter abbreviations to mean: "Following are normal (or special) weather data."

9. It should be noted that several of the observation points are so far out at sea that the coast stations, although provided with extra sensitive receiving gear, will be unable to read the messages unless all ships help by keeping quiet. In particular, ships working near Malin head or Valentia should be on the watch for the coast station making "Go on" (K) or "Repeat" (UD) to a ship whose transmission they themselves cannot hear. It is hoped that ships will so co-operate in this matter that it will be unnecessary to arrange international "silent periods" to enable these long-range data messages to be read by the coast stations.

10. The coast stations, on receiving these data messages, will possibly have to forward them to London by wireless. They would use continuous wave for this purpose, and would therefore not be heard by ships not fitted with special receivers. Ships should therefore be prepared to find that Valentia or Malin head could not attend to calls for a few minutes after receipt of one of these data messages.

11. The "special" data messages referred to in paragraph 5 above are only made when the Meteorological Office finds its information pointing to the existence of peculiar conditions in a certain area. In such cases the office directs Valentia or Malin head to ask for reports. The shore station then sends, to "any British ship supplying weather data" ‡ the word "weather"§ followed, if necessary, by the number of the observation point from which a special data message is desired. This word would not be answered by ships; but ships addressed, which were in the vicinity of any (or of the specified) observation point, would verify their position, make the warning signal to "All ships," take observations and pass in the special data message as above described for the regular message.

‡ The call letters BVD are being given this signification.

§ Application is being made to Berne to allot an international 3-letter abbreviation to mean: "Please give special weather data (from observation point number.....)"



## ISSUE OF WEATHER BULLETINS TO SHIPS.

12. A wireless weather bulletin may contain both or either of the following:—

- (a) A weather report, which is an official statement of existing weather conditions; and/or  
(b) A weather forecast, which is an official opinion of probable future weather conditions.

13. The accompanying schedule of wireless weather bulletins is intended to provide, in a form suitable to give all information required by the wireless operator, a complete and up-to-date list of all weather bulletins transmitted at fixed times by wireless stations throughout the world. The same information will be found in detail in the Sailing Directions and in the international list of radio-telegraph stations (the Berne List).

14. The times given in the third column of the schedule are expressed in the 4-figure notation employed for signalling during the war. The term "G. M. T." here means the civil mean time of the meridian of Greenwich, with the day commencing at midnight and the hours reckoned from 00 to 23.

15. Operators are reminded that Article 45 of the International Service Regulations imposes the general obligation of not interfering with reception of weather bulletins by other ships.

16. Certain other stations not shown in the schedule supply weather bulletins on demand, generally at reduced charges. Particulars will be found in the Berne List.

## SCHEDULE OF WIRELESS WEATHER BULLETINS.

Wireless station. (1.)	Call letters (2.)	Time (G. M. T.) (3.)	Wave (Metres). (4.)
<b>AUSTRALASIA :</b>			
Adelaide Radio ... ..	VIA	0900, 1030	600
Brisbane Radio ... ..	VIB	1230, 1300	600
Hobart Radio ... ..	VIH	1200	600
Melbourne Radio ... ..	VIM	0930, 1100	600
Sydney Radio (Pennant Hills) ... ..	VIS	...	600
Awanui Radio ... ..	VLA	} No details	No details.
Awarua Radio ... ..	VLB		
Wellington Radio ... ..	VLW		
Chatham Is. ... ..	VLC		
Macquarie Is. Radio ... ..	VIQ		
<b>BRAZIL :</b>			
Ilha do Governador ... ..	SOH	0000*	1800
<b>CHINA ;</b>			
Shanghai—Zikawei ... ..	FFZ	0300*, 0900	600
<b>FRANCE :</b>			
Eiffel Tower ... ..	FL	0945†, 2330*	2500
<b>FRENCH OCEANIA :</b>			
Papeete, Ile Tahiti ... ..	FOP	1100, 2300	600
<b>GERMANY :</b>			
Norddeich ... ..	KAV	1200,* 2200	1650
<b>GREAT BRITAIN :</b>			
Poldhu ... ..	MPD	0930, 2130	2700
Cleethorpes ... ..	BYB	0500, 1700	3000
<b>HAWAIIAN IS.</b>			
Pearl Harbour ... ..	NPM	{ 0230, 0630 } { 1830, 2230 }	600

\* Weather bulletin follows a time signal.

† Weather bulletin is followed by time signal.



Wireless station. (1.)	Call letters. (2.)	Time (G. M. T.) (3.)	Wave (Metres). (4.)
<b>HOLLAND:</b>			
Scheveningen ... ..	PCH	1115, 2315	1800
<b>INDIA:</b>			
Calcutta Radio ... ..	VWC	0730*, 1910	2000
Karachi Radio ... ..	VWK	0730, 1910 {	2000
Rangoon Radio ... ..	VTR		1200
Bombay Radio ... ..	VMB	0740, 1920 {	2000
Madras Radio ... ..	VWM		2000
Port Blair ... ..	VTP		1200
<b>JAPAN:</b>			
Choshi ... ..	JCS	1200*	600
Dairenwan ... ..	JDA	1200	600
Fukukaku ... ..	JKF	1130	600
<b>MEXICO:</b>			
Campeche ... ..	XAB	1837*	600
Guayamas ... ..	XAH		
Mazatlan de Sinaloa ... ..	XAE		
Payo Obispo ... ..	XAC		
Vera Cruz ... ..	XAA		
<b>MEDITERRANEAN:</b>			
Rinella ... ..	BYZ	2100	2700
<b>SAMOA:</b>			
Tutuila ... ..	NPU	{ 0330, 0730 1930, 2330 }	600
<b>SOUTH AFRICA:</b>			
Capetown Radio ... ..	MNC	1115	600
Durban Radio ... ..	VND	1115	600
<b>SPAIN:</b>			
Madrid ... ..	EGG	1330	2000
<b>UNITED STATES:</b>			
Washington (Arlington) ... ..	NAA	0300* & 1700*	2500
Annapolis ... ..	NBR	0130, 1330	1700
Key West ... ..	NAR	0300*	1500
S. Francisco ... ..	NPH	06.0*	600 & 950
North Head ... ..	NPE	0600	600 & 950
S. Diego ... ..	NPL	0600	600 & 950

\* Weather bulletin follows a time signal.

*Note.*—This Notice will be subject to revision from time to time.

*Authority.*—The Lords Commissioners of the Admiralty. (H. 5939/19.)

#### NEW ZEALAND, NORTH ISLAND.

*Manukau Harbour Entrance—South Channel Leading Lights discontinued.*

*No. 296 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1397 of 1919), are republished:—

*Position.*—North head, lat. 37° 02' S., long. 174° 32' E.

*Details.*—The white leading lights on the North head and the red leading lights on the South head have been discontinued. The above has been rendered necessary owing to the silting up of the South channel.



*Note.*—A note “(Silted up 1919)” is to be inserted on the charts against the South channel, and the first and last sentences of the cautionary note on chart No. 2726 are to be expunged.

*Charts affected.*—No. 2726, Manukau harbour.  
 „ 2535, Manukau harbour to Cape Egmont.  
 „ 2543, Maunganui bluff to Manukau harbour, etc.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2965, 2966.  
 New Zealand Pilot, 1908, pages 213, 216.

*Authority.*—Wellington Notice No. 26 of 1919. (H. 5557-19.)

### JAVA, NORTH COAST.

*Samarang Bay—Depth over Wreck; Wreck-marking Light-Buoy and Buoy withdrawn.*

*No. 297 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1412 of 1919), are republished:—

(a) Depth over wreck:

*Position.*—At a distance of  $2\frac{1}{2}$  miles,  $346^{\circ}$  (N.  $15^{\circ}$  W. *Mag.*), from Semarang flashing white light.

Lat.  $6^{\circ} 55'$  S., long.  $110^{\circ} 23\frac{1}{2}'$  E.

*Details.*—There is a depth of  $4\frac{1}{2}$  fathoms over the wreck situated in the above position.

(b) Wreck-marking light-buoy and buoy withdrawn:

*Details.*—The light-buoy painted green, with occulting white light, formerly situated in the above position, has been withdrawn, together with the R.W.H.S buoy with ball topmark formerly situated about three-quarters of a cable westward from the above position.

*Variation.*— $1^{\circ}$  E.

*Charts affected.*—No. 932, Plan of Semarang bay.

„ 1653, Island of Java—Western portion.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 118.

*Authority.*—Hague Notice No. 1569 of 1919. (H. 5708-19.)

### BAY OF BENGAL—TENASSERIM COAST.

*Yengan river—Uncharted rock at the entrance.*

*No. 298 (first publication).*—The following Notice to Mariners, dated the 16th September 1919, issued by the Principal Port Officer, Burma, Rangoon, is republished:—

*Position.*—At the entrance to Yengan river, Yengan Hill crest, bearing N  $84\frac{1}{2}^{\circ}$  E., distant  $6\frac{1}{2}$  cables.

Sextant angles rocks.

Sail rock  $38^{\circ} 15'$ , Hummock  $115^{\circ} 55'$ , Yengan Hill  $216^{\circ}$   
 Hill  $16^{\circ} 50'$  Hill  $100^{\circ} 05'$  45 Islet.

*Description.*—A rocky patch of about 100 feet diameter, having two heads awash at L. W. springs, with soundings of 2 fathoms sand near it.

*Chart affected.*—No. 216a, Northern part of Mergui Archipelago.

*Authority.*—Master of the SS. “Jutta” through the Port Officer Mergui.



*The 22nd September 1919.*

**CHINA, EAST COAST—HONGKONG HARBOUR APPROACH.**

*Bokhara Rocks—Alteration in Position of Buoy.*

*No. 288 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1362 of 1919), are republished :—

*New position.*—At a distance of about 2 cables eastward from former position, and  $1\frac{5}{8}$  cables,  $101^{\circ}$  (*S.  $79^{\circ}$  E. Mag.*), from the centre of the 2 $\frac{1}{2}$ -fathom head on Bokhara rocks.

Lat.  $22^{\circ} 12\frac{1}{2}'$  N., long.  $114^{\circ} 16\frac{1}{2}'$  E.

*Description.*—A black and white chequered buoy.

*Remarks.*—This buoy was not hitherto shown on chart No. 3026 and is to be inserted.

*Variation.*—Nil.

*Charts affected.*—No. 1466, Hongkong.

„ 3605, Hongkong to Mirs bay..

„ 1180, Approaches to Hongkong.

„ 3026, Macao to Pedro Blanco, including Hongkong.

„ 1962, Hongkong to the Brothers.

*Publication.*—China Sea Pilot, Vol. III, 1912, page 496.

*Authority.*—Harbour Master, Hongkong. (*H. 5549/19.*)

**JAPAN, INLAND SEA—SHIMONOSEKI KAIKYO.**

*Hayatomo Seto—Non-Existence of Wreck.*

*No. 289 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1363 of 1919), are republished :—

*Former Notice.*—No. 1261 of 1919. (*This office No. 267 of 1919.*)

*Position.*—At a distance of about  $3\frac{3}{8}$  cables, south-eastward from Dan no Ura lighthouse.

Lat.  $33^{\circ} 58'$  N., long.  $130^{\circ} 58'$  E.

*Description.*—Wreck of the sailing vessel *Suwa Gawa Maru*.

*Remarks.*—The wreck has drifted away and is to be expunged from the charts.

*Charts affected.*—No. 1578, Shimonoseki kaikyo.

„ 532, Approach to Shimonoseki kaikyo.

„ 3225, Shimonoseki kaikyo to Maruyama zaki.

*Authority.*—Tokyo Notice No. 146 of 1919. (*H. 5105/19.*)

**JAVA—SUNDA STRAIT.**

*Toppers (Button) Island—Light established.*

*No. 290 (second publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1379 of 1919), are republished :—

*Position.*—On Toppers (Button) island.

Lat.  $5^{\circ} 54' 00''$  S., long.  $105^{\circ} 56' 00''$  E.

*Abridged description.*—Lt. Fl., *ev.* 3 sec., *vis.* 22 m.



**Characteristics:**

*Character.*—A flashing white light every three seconds, thus:—

Flash.	eclipse
1 sec.	2 secs.

*Visibility.*—22 miles.

*Remarks.*—Further particulars are not stated.

*Charts affected.*—No. 2056, Sunda strait and approaches.  
 „ 1653, Island of Java—western portion.  
 „ 941a, Eastern Archipelago—sheet I.  
 „ 1263, China sea.

*Publications.*—List of Lights, Part VI, 1919, No. 864.  
 China Sea Pilot, Vol. II, 1915, page 46.  
 Eastern Archipelago Pilot, Part II, 1913, page 41.

*Authority.*—Hague Notice No. 1372 of 1919. (H. 5041/19.)

**BORNEO, EAST COAST.**

*Sungi Berau Entrance—Information with regard to Shoals.*

No. 291 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1380 of 1919), are republished:—

(1) Existence of shoal:

*Position.*—Lat.  $2^{\circ} 09' 00''$  N., long.  $118^{\circ} 10' 10''$  E.

*Depth.*—4 fathoms.

(2) Non-existence of shoal:

*Position on chart.*—Close northward of the shoal mentioned in (1) above.

Lat.  $2^{\circ} 09' 10''$  N., long.  $118^{\circ} 10' 00''$  E.

*Details.*—The shoal, shown on the chart in this position as having a depth of less than 6 feet, is to be expunged from the chart, a reliable search having failed to find any trace of its existence.

*Charts affected.*—No. 2636, North part of the Strait of Makassar.

„ 2660b, China sea, southern portion—eastern sheet.

„ 1263, China sea.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 430.

*Authority.*—Hague Notice No. 1512 of 1919. (H. 5400/19.)

**CHINA SEA—CARIMATA STRAIT.**

*Billiton Island, East Coast—Existence of Reefs.*

No. 292 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1381 of 1919), are republished:—

*Former Notice.*—No. 1143 of 1919. (This office No. 248 of 1919.)

*Position.*—At a distance of about 2½ miles south-eastward of Mempirak.

Lat.  $2^{\circ} 43' 46''$  S., long.  $108^{\circ} 28' 46''$  E.

*Depth.*—Less than 6 feet.



*Remarks.*—The reefs are three in number and extend for a distance of about 3 cables. The position given above is that of the centre reef.

*Note.*—The note with regard to discoloured water reported in the former Notice, about half a mile westward of the above position, is to be expunged from chart No. 2160.

*Charts affected.*—No. 2160, Carimata strait.

„ 941a, Eastern Archipelago, sheet I.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 209; Revised Supplement (2), 1919.

*Authority.*—Hague Notice No. 1509 of 1919. (H. 5397/19).

#### JAVA—SURABAYA STRAIT, EASTERN ENTRANCE.

##### *Jansen Channel—No. 1 Buoy withdrawn*

*No. 293 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1383 of 1919), are republished:—

*Position.*—Lat.  $7^{\circ} 21\frac{1}{2}'$  S., long.  $112^{\circ} 54'$  E.

*Description.*—A black buoy with truncated cone topmark.

*Remarks.*—The buoy has been withdrawn and is to be expunged from the chart.

*Chart affected.*—No. 934 Surabaya strait.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 140.

*Authority.*—Hague Notice No. 1514 of 1919. (H. 5402/19.)

#### SUMATRA, EAST COAST—BANKA ISLAND, NORTH-EAST COAST.

##### *Marawang Road Approach—Existence of a Shoal.*

*No. 294 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1384 of 1919), are republished:—

*Position.*—Close eastward of the 5-fathom shoal situated about  $2\frac{1}{2}$  miles westward of General Elliot reef light.  
Lat.  $2^{\circ} 03' 54''$  S., long.  $106^{\circ} 17' 36''$  E., on chart No. 2597.

*Depth.*—Not stated.

*Remarks.*—A note "*Shoal water repd. (1919)*" is to be inserted on the chart on the eastern side of the 5-fathom shoal above referred to.

*Charts affected.*—No. 2597. Banka strait.

„ 2149, Banka and Gaspar straits

*Publication.*—China Sea Pilot, Vol. II, 1915, page 177.

*Authority.*—Hague Notice No. 1515 of 1919. (H. 5403/19.)

*The 15th September 1919.*

#### JAPAN, INLAND SEA—BISAN SETO.

##### *Ozuchi Jima—Non-existence of Wreck south-eastward of.*

*No. 279 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1311 of 1919), are republished:—

*Former Notice.*—No. 829 of 1917. (This office No. 265 of 1917.)

*Position on charts.*—At a distance of about one mile south-eastward from Ozuchi jima summit.

Lat.  $34^{\circ} 24\frac{1}{2}'$  N., long.  $133^{\circ} 56'$  E.



*Remarks.*—The wreck shown in the above position is to be expunged from the charts.

*Variation.*—5° W.

*Charts affected.*—No. 128, Channels between Bingo nada and Ozuchi jima.

„ 1969, Ozuchi jima to Funoko jima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 141 of 1919. (H. 4877/19.)

#### JAVA, NORTH COAST.

##### *Semarang Bay—Existence of Shoal.*

No. 280 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1318 of 1919), are republished:—

*Position.*—At a distance of 2½ miles. 336° (N. 25° W. Mag.) from Semarang lighthouse.

Lat. 6° 55½' S., long. 110° 23½' E.

*Depth.*—3 fathoms.

*Caution.*—Pending further information vessels are advised not to pass to the westward of a line drawn parallel to, and 5½ cables westward from, the axis of the dredged channel.

*Variation.*—1° E.

*Charts affected.*—No. 932, Plan of Semarang bay.

„ 1653, Island of Java—western portion.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 117.

*Authority.*—Hague Notice No. 1321 of 1919. (H. 4904/19.)

#### JAPAN, INLAND SEA—IYO NADA.

##### *Sago No Sêto—Non-existence of Wreck; Buoy and Light withdrawn.*

No. 281 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1319 of 1919), are republished:—

*Former Notice.*—No. 1004 of 1919. (This office No. 210 of 1919.)

*Position.*—At a distance of about half a mile southward from Sago shima 370-foot summit.

Lat. 33° 51½' N., long. 132° 03½' E.

*Remarks.*—The wreck in the above position and the note “Marked by buoy and Lt. (posn. approx.)” are to be expunged from the charts.

*Charts affected.*—No. 3154, Ominase to Gogo shima.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 134 of 1919. (H. 4868/19.)

#### JAPAN—INLAND SEA, SUWO NADA.

##### *He Saki—Wreck south-eastward of.*

No. 282 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1320 of 1919), are republished:—

*Position (approximate).*—At a distance of about 2½ miles south-eastward of He Saki lighthouse.

Lat. 33° 56' 00" N., long. 131° 03' 00" E.

*Description.*—Sunken wreck of the sailing vessel *Nadayoshi Maru*.



*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 158 of 1919. (H. 5024/19.)

#### JAPAN—HONSHŪ, ABURATANI HARBOUR APPROACH.

*Kawajiri Misaki—Non-existence of Wreck eastward of.*

*No. 283 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1324 of 1919), are republished:—

*Position.*—At a distance of about 6½ cables eastward from the north-east extreme of Kawajiri misaki.

Lat. 34° 26½' N., long. 130° 59' E.

*Remarks.*—This wreck is to be expunged from the charts.

*Charts affected.*—No. 457, Aburatani harbour.

„ 3617, Yume zaki to Modoro zaki.

„ 2875, Naikai (Seto uchi).

„ 1495, Aburatani bay to Ando zaki.

„ 358, Western coasts of Kiusiu and Nipon.

*Authority.*—Tokyo Notice No. 133 of 1919. (H. 4867/19.)

#### MALACCA STRAIT—PENANG HARBOUR APPROACH.

*North Channel—Light-Buoy withdrawn.*

*No. 284 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1325 of 1919), are republished:—

*Position.*—At a distance of about 3½ miles northward from the white obelisk on Pulo Tikus.

Lat. 5° 31½' N., long. 100° 16½' E.

*Description.*—A light-buoy formerly exhibiting an occulting red light.

*Remarks.*—The above light-buoy has been withdrawn and is to be expunged from the charts.

*Charts affected.*—No. 1366, Penang harbour and approaches.

„ 793, Butang group to Pulo Berhala.

*Publication.*—China Sea Pilot, Vol. I, 1916, page 177.

*Authority.*—Penang Notice No. 540 of 1919. (H. 4844/19.)

#### SUMATRA, EAST COAST—LINGA ISLAND.

*Kentar Island—Light established.*

*No. 285 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1331 of 1919), are republished:—

*Position.*—On the eastern end of Kentar island.

Lat. 0° 02' 00" N., long. 104° 47' 00" E.

*Abridged description.*—Lt. Gp. Fl. (3), ev. 10 sec., vis. 26 m.



Characteristics :

*Character.*—A group flashing white light showing three flashes in quick succession every ten seconds.

*Elevation.*—Not stated.

*Visibility.*—26 miles.

*Structure.*—Not stated.

*Charts affected.*—No. 1789, Channels between Sumatra, Linga and Singkep.

„ 2757, Banka strait to Singapore.

„ 941a, Eastern Archipelago—sheet I.

„ 2660a, China sea, southern portion—western sheet.

„ 1263, China sea.

*Publications.*—List of Lights, Part VI, 1919, No. 998a.

China Sea Pilot, Vol. II, 1915, page 249.

*Authority.*—Hague Notice No. 1371 of 1919. (H. 5027/19.)

BORNEO, WEST COAST.

*Panebangan Island—Decreased Depths reported north-eastward of.*

No. 286 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1332 of 1919), are republished :—

*Position.*—In the Inner channel.

Lat.  $1^{\circ} 11' 00''$  S., long.  $109^{\circ} 18' 20''$  E.

*Details.*—The following cautionary note with regard to decreased depths recently reported is to be inserted in the vicinity of the above position on the charts :—“ From one to  $1\frac{1}{2}$  fathoms less water repl. (1919).”

*Charts affected.*—No. 3758, Tanjong Beras Basah to Masa Tiga island.

„ 2160, Carimata strait.

„ 941a, Eastern archipelago—sheet I.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 219.

*Authority.*—Hague Notice No. 1238 of 1919. (H. 4601/19.)

CHINA, NORTH-EAST COAST.

*Chifu (Yentai) Inner Harbour—Alterations in Lighting.*

No. 287 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1350 of 1919), are republished :—

*Former Notice*—No. 915 of 1918. (This Office No. 314 of 1918.)

1. Light established :

*Position.*—On the northern end of the breakwater under construction.

Lat.  $37^{\circ} 33\frac{1}{2}'$  N., long.  $121^{\circ} 23\frac{1}{2}'$  E.

*Abridged description.*—Lt. Fl.

Characteristics :

*Character.*—A flashing white light every three seconds, thus :—

Flash,	eclipse.
$\frac{1}{2}$ sec.	$2\frac{1}{2}$ secs.



*Elevation.*—18 feet.

*Structure.*—A black iron trestle.

*Remarks.*—This light marks the eastern side of the northern entrance to the inner harbour.

2. Light-buoy withdrawn :

*Position.*—At a distance of about 1½ cables northward from the northern end of the breakwater under construction.

*Description.*—A light-buoy painted black, formerly exhibiting a flashing white light.

*Remarks.*—This light-buoy, which has been withdrawn, is to be expunged from the charts.

3. Alteration in light on light-buoy :

*Position.*—Off the eastern end of the mole under construction.

*Alteration.*—The occulting red light on this light-buoy has been replaced by a *flashing red light every three seconds*, thus :—

Flash,	eclipse.
$\frac{3}{10}$ sec.	$2\frac{7}{10}$ secs.

*Remarks.*—This light-buoy marks the western side of the northern entrance to the inner harbour.

*Chart affected.*—No. 1260, Ching tsu shan to Chifu bluff.

*Publications.*—List of Lights, Part VI, 1919, No. 1642a.

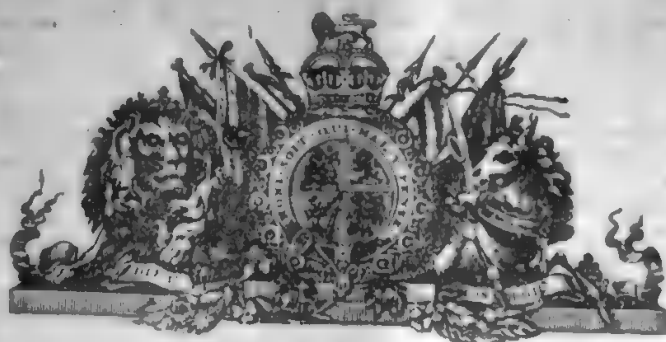
China Sea Pilot, Vol. V, 1912, pages 465, 466 ;  
Revised Supplement (II), 1918.

*Authority.*—Shanghai Notice No. 679 of 12th May 1919. (H. 5018/19.)

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, OCTOBER 22. 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 15th October 1919.

### TASMANIA, NORTH COAST.

*Table Cape Light—Intended alteration in character; Signal Station to be discontinued.*

No. 302 (first publication).—

*Subject.*—The fixed White Light with Red Sectors on Table Cape will be replaced by a Group Flashing White Light with Red Sectors (U); and, further, that the Signal Station will be discontinued, on or about 31st January, 1920.

*Position.*—Near extreme of Table Cape.

Lat.  $40^{\circ} 57'$  S., long.  $145^{\circ} 45\frac{1}{2}'$  E. on Chart No. 1695b.

*Details.*—The Fixed White Light with Red Sectors will be replaced by a New Light having the undermentioned characteristics:—

*Character.*—Group Flashing White Light with Red Sectors, showing two flashes in quick succession every six seconds, thus:—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$4\frac{1}{2}$ secs.

*Sectors.*—White from  $132^{\circ}$  (S.  $57^{\circ}$  E. Mag.) through South and West to  $296^{\circ}$  (N.  $73^{\circ}$  W. Mag.); Red inshore of these bearings.

*Visibility.*—White, 24 miles. Red, 8 miles.

*Power.*—White, 5,000 candles. Red, 2,000 candles.



*Remarks.*—The Light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1695*b*, Bass Strait, Western sheet.  
 „ 1079, Tasmania.  
 „ 2759*b*, Australia, Southern portion.  
 „ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2794.

Australia Pilot, Vol. II, 1918, pages 283, 284.

*Authority.*—Melbourne Notice No. 12 of 1919.

W. K. THYNE, COMDR., R.I.M.,  
*Deputy Port Officer of Calcutta.*

The 6th October 1919.

#### GULF OF ADEN.

##### *Submerged wreckage reported.*

*No. 299 (second publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 63M. of 1919), are republished:—

*Details.*—Information has been received from the Resident Naval Officer, Aden, that the Master of S. S. *City of Agra* reports having struck submerged wreckage on the 10th September 1919, in the following position.

*Position.*—Lat. 12° 49' N.  
 Long. 49° 45' E.

*Charts temporarily affected.*—No. 6*a*, Gulf of Aden, eastern portion.

„ 1012, Arabian sea.  
 „ 748*b*, Indian ocean, northern portion.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 502.

*Authority.*—The Director, Royal Indian Marine, dated Bombay, 13th September 1919.

#### TASMANIA—NORTH COAST.

*Mersey Bluff (Devonport) Light—Intended alteration in Character.—Signal Station to be discontinued.*

*No. 300 (second publication).*—

*Subject.*—The Fixed White Light with Red Sectors on Mersey Bluff (Devonport), will be replaced by a Group Flashing White Light with Red Sectors (U); and, further, that the Signal Station will be discontinued, on or about 15th January 1920.

*Position.*—Near extreme of Mersey Bluff.

Lat. 41° 09½' S.; long. 146° 23½' E. on chart No. 1695*a*.



*Details.*—The Fixed White Light with Red Sectors will be replaced by a new light having the undermentioned characteristics:—

*Character*—Group Flashing White Light with Red Sectors, showing four flashes in quick succession every twelve seconds, thus:—

Flash	Eclipse	Flash	Eclipse	Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$\frac{1}{2}$ sec.

*Sectors.*—Red from  $86^{\circ}$  (N.  $77^{\circ}$  E. Mag.) through East to  $121^{\circ}$  (S.  $68^{\circ}$  E. Mag.); White from  $121^{\circ}$  (S.  $68^{\circ}$  E. Mag.) through South to  $225^{\circ}$  (S.  $36^{\circ}$  W. Mag.); Red from  $225^{\circ}$  (S.  $36^{\circ}$  W. Mag.) to  $260^{\circ}$  (S.  $71^{\circ}$  W. Mag.). Obscured elsewhere.

*Visibility.*—White, 16 miles. Red, 7 miles.

*Power.*—White, 1,500 candles. Red, 600 candles.

*Remarks.*—The Light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note*—No further notice will be given.

*Charts affected.*—No. 1695a, Bass strait.

„ 1079, Tasmania.

„ 3717, Plans in Tasmania—River Mersey.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2800.

Australia Pilot, Vol. II, 1918, page 273.

*Authority.*—Melbourne Notice No. 11 of 1919.

#### PORTUGUESE EAST AFRICA.

*Mozambique Harbour*—Amended Caution with regard to vessels Anchoring.

No. 301 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1437 of 1919), are republished:—

*Former Notice.*—No. 960 of 1919. (This office No. 191 of 1919).

*Position.*—Mozambique island, lat.  $15^{\circ} 02'$  S., long.  $40^{\circ} 44'$  E.

*Details.*—The cautionary note on the charts is to be amended to read:—

“Vessels are cautioned against anchoring in the channels E. and N. E. of Mozambique I., and within a radius of 2 cables from the N. end, of Sebastian Fort, Mozambique I., as there is great danger of breaking the telegraph cables.”

*Charts affected.*—No. 652, Mozambique harbour.

„ 653, Ports of Conducia, Mozambique and Mokambo.

*Publication.*—Africa Pilot, Part III, 1915, page 28%.

*Authority.*—H. M. S. Hyacinth Hyd. Note No. 5 of 1919. (H. 4277/19).

E. STOCKEN, CAPTAIN, R.I.M.,

Port Officer of Calcutta.



*The 26th September 1919.*

## WIRELESS METEOROLOGICAL INFORMATION TO AND FROM SHIPS AT SEA.

### *General Remarks.*

*No. 295 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1393 of 1919), are republished:—

*Former Notice.*—No. 880 of 1919 hereby cancelled.

1. It is earnestly hoped that all concerned will assist in making the wireless meteorological service a success. Negotiations are now in hand to extend and unify the system of collecting weather data by wireless from ships at sea all over the world, and at the same time to organise the free transmission of weather bulletins from a sufficient number of wireless stations to admit of ships being constantly supplied with reliable weather reports and forecasts wherever they may be.

2. It should be borne in mind that the needs of ships at sea in regard to information regarding the weather will march hand in hand with the requirements of aircraft. The importance of this service will therefore be constantly increasing and its success or failure will largely depend upon the co-operation of ships at sea in providing the data without which accurate forecasting is impossible. The matter does not depend solely upon the efforts of the ships selected to furnish the data. The essence of success lies in rapidity in passing such data by wireless from the ship to the coast station, and thence to the central meteorological office. It follows, therefore that all ships not taking an active part in supplying data should use the greatest care not to interfere with the transmission of the wireless messages to the shore.

3. The following particulars refer to the scheme now being undertaken by the British Meteorological Office. This Notice will, however, be subject to revision from time to time, and endeavours will be made to include in each revision all information available to date of the weather bulletins issued by the wireless stations of the world. Earnest endeavours are being made to obtain international agreement as to the form of these weather bulletins and to the methods and times of transmissions. It is hoped that the messages will eventually all be made in an international code at fixed times, so arranged that a ship with only one wireless operator will be able to read them. A similar scheme for time signals is being evolved.

### **Collection of Weather Data from Ships.**

4. Certain ships are being asked to supply data regularly three times a day whenever they are within a certain distance of any one of some six or eight "observation points" in the North Eastern Atlantic.

5. In addition to the regular observations, which are taken at 0100, 0700 and 1300 Greenwich time and sent as soon as possible to Malin head (GMH) or Valentia (GCK) coast stations, these ships may, on request from either of these coast stations, send special data messages at other times.

6. The procedure for a ship which intends to send a data message will be as follows:—As soon as it has been decided to make the data message (i.e., normally at about 0100, 0700 or 1300), the ship makes to "all ships" (CQ) the word "weather,"\* followed by a number which indicates the "observation point" (see paragraph 4 above), near which she is at the time.

\* Application is being made to Berne to allot an international 3-letter abbreviation to mean: "Am about to make weather data from observation point number....."

7. This warning message will not be answered by any ship or station. It is merely designed—

(a, To inform all ships within range that a report is about to be made and that they should therefore avoid interfering.



(b) To inform all other ships supplying weather data, which may be in the vicinity of the same observation point, that, one ship having decided to make a report, it is unnecessary for them to make one also.

8. About 5 or 10 minutes after the ship has made the warning as above, she may be expected to transmit the data message itself. The normal or regular "data message" consists of 4 groups of 5 figures each; the special data message is of 2 groups of 5 figures each. All data messages bear the one word "weather"† as the address, and conclude with a "time of origin" of 4 figures. The message will be sent to Malin head (GMH) or Valentia (GCK), according to the position of the "observation point."

† Application is being made to Berne to allot international 3-letter abbreviations to mean: "Following are normal (or special) weather data."

9. It should be noted that several of the observation points are so far out at sea that the coast stations, although provided with extra sensitive receiving gear, will be unable to read the messages unless all ships help by keeping quiet. In particular, ships working near Malin head or Valentia should be on the watch for the coast station making "Go on" (K) or "Repeat" (UD) to a ship whose transmission they themselves cannot hear. It is hoped that ships will so co-operate in this matter that it will be unnecessary to arrange international "silent periods" to enable these long-range data messages to be read by the coast stations.

10. The coast stations, on receiving these data messages, will possibly have to forward them to London by wireless. They would use continuous wave for this purpose, and would therefore not be heard by ships not fitted with special receivers. Ships should therefore be prepared to find that Valentia or Malin head could not attend to calls for a few minutes after receipt of one of these data messages.

11. The "special" data messages referred to in paragraph 5 above are only made when the Meteorological Office finds its information pointing to the existence of peculiar conditions in a certain area. In such cases the office directs Valentia or Malin head to ask for reports. The shore station then sends, to "any British ship supplying weather data" ‡ the word "weather"§ followed, if necessary, by the number of the observation point from which a special data message is desired. This word would not be answered by ships; but ships addressed, which were in the vicinity of any (or of the specified) observation point, would verify their position, make the warning signal to "All ships," take observations and pass in the special data message as above described for the regular message.

‡ The call letters BVD are being given this signification.

§ Application is being made to Berne to allot an international 3-letter abbreviation to mean: "Please give special weather data (from observation point number.....)"

#### ISSUE OF WEATHER BULLETINS TO SHIPS.

12. A wireless *weather bulletin* may contain both or either of the following:—

- (a) A *weather report*, which is an official statement of existing weather conditions; and/or
- (b) A *weather forecast*, which is an official opinion of probable future weather conditions.

13. The accompanying schedule of wireless weather bulletins is intended to provide, in a form suitable to give all information required by the wireless operator, a complete and up-to-date list of all weather bulletins transmitted at fixed times by wireless stations throughout the world. The same information will be found in detail in the Sailing Directions and in the international list of radio-telegraph stations (the Berne List).

14. The times given in the third column of the schedule are expressed in the 4-figure notation employed for signalling during the war. The term "G. M. T." here means the civil mean time of the meridian of Greenwich, with the day commencing at midnight and the hours reckoned from 00 to 23.

15. Operators are reminded that Article 45 of the International Service Regulations imposes the general obligation of not interfering with reception of weather bulletins by other ships.



16. Certain other stations not shown in the schedule supply weather bulletins *on demand*, generally at reduced charges. Particulars will be found in the Berne List.

## SCHEDULE OF WIRELESS WEATHER BULLETINS.

Wireless station. (1.)	Call letters (2.)	Time (G. M. T.) (3.)	Wave (Metres). (4.)
<b>AUSTRALASIA :</b>			
Adelaide Radio ... ..	VIA	0900, 1030	600
Brisbane Radio ... ..	VIB	1230, 1300	600
Hobart Radio ... ..	VIH	1200	600
Melbourne Radio ... ..	VIM	0930, 1100	600
Sydney Radio (Pennant Hills) ... ..	VIS	...	600
Awanui Radio ... ..	VLA	} No details	No details.
Awarua Radio ... ..	VLB		
Wellington Radio ... ..	VLW		
Chatham Is. ... ..	VLC		
Macquarie Is. Radio ... ..	VIQ		
<b>BRAZIL :</b>			
Ilha do Governador ... ..	SOH	0000*	1800
<b>CHINA ;</b>			
Shanghai—Zikawei ... ..	FFZ	0300*, 0900	600
<b>FRANCE :</b>			
Eiffel Tower ... ..	FL	0945†, 2330*	2500
<b>FRENCH OCEANIA :</b>			
Papeete, Ile Tahiti ... ..	FOP	1100, 2300	600
<b>GERMANY :</b>			
Norddeich ... ..	KAV	1200,* 2200	1650
<b>GREAT BRITAIN :</b>			
Poldhu ... ..	MPD	0930, 2130	2700
Cleethorpes ... ..	BYB	0500, 1700	3000
<b>HAWAIIAN IS.</b>			
Pearl Harbour ... ..	NPM	{ 0230, 0630 1830, 2230 }	? 600
<b>HOLLAND :</b>			
Scheveningen ... ..	PCH	1115, 2315	1800
<b>INDIA :</b>			
Calcutta Radio ... ..	VWC	0730*, 1910	2000
Karachi Radio ... ..	VWK	} 0730, 1910 {	2000
Rangoon Radio ... ..	VTR		1200
Bombay Radio ... ..	VMB	} 0740, 1920 {	2000
Madras Radio ... ..	VWM		2000
Port Blair ... ..	VTP		1200
<b>JAPAN :</b>			
Choshi ... ..	JCS	1200*	600
Dairenwan ... ..	JDA	1200	600
Fukkukaku ... ..	JKF	1130	600
<b>MEXICO :</b>			
Campeche ... ..	XAB	} 1837*	600
Guayamas ... ..	XAH		
Mazatlan de Sinaloa ... ..	XAE		
Payo Obispo ... ..	XAC		
Vera Cruz ... ..	XAA		

\* Weather bulletin follows a time signal.

† Weather bulletin is followed by time signal.



Wireless station. (1.)	Call letters (2.)	Time (G. M. T.) (3.)	Wave (Metres). (4.)
<b>MEDITERRANEAN:</b>			
<u>Rinella</u> ... ..	<u>BYZ</u>	2100	2700
<b>SAMOA:</b>			
Tutuila ... ..	NPU	{ 0330, 0730 1930, 2330 }	600
<b>SOUTH AFRICA:</b>			
Capetown Radio ... ..	MNC	1115	600
Durban Radio ... ..	VND	1115	600
<b>SPAIN:</b>			
Madrid ... ..	EGG	1330	2000
<b>UNITED STATES:</b>			
Washington (Arlington) ... ..	NAA	0300* & 1700*	2500
Annapolis ... ..	NBR	0130, 1330	1700
Key West ... ..	NAR	0300*	1500
S. Francisco ... ..	NPH	0600*	600 & 950
North Head ... ..	NPE	0600	600 & 950
S. Diego ... ..	NPL	0600	600 & 950

\* Weather bulletin follows a time signal.

*Note.*—This Notice will be subject to revision from time to time.

*Authority.*—The Lords Commissioners of the Admiralty. (*H. 5939/10.*)

#### NEW ZEALAND, NORTH ISLAND.

*Manukau Harbour Entrance—South Channel Leading Lights discontinued.*

*No. 296 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1397 of 1919), are republished:—

*Position.*—North head, lat. 37° 02' S., long. 174° 32' E.

*Details.*—The white leading lights on the North head and the red leading lights on the South head have been discontinued. The above has been rendered necessary owing to the silting up of the South channel.

*Note.*—A note “(*Silted up 1919*)” is to be inserted on the charts against the South channel, and the first and last sentences of the cautionary note on chart No. 2726 are to be expunged.

*Charts affected.*—No. 2726, Manukau harbour.

„ 2535, Manukau harbour to Cape Egmont.

„ 2543, Maunganui bluff to Manukau harbour etc.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2965, 2966.

New Zealand Pilot, 1908, pages 213, 216.

*Authority.*—Wellington Notice No. 26 of 1919. (*H. 5557-19.*)



## JAVA, NORTH COAST.

*Samarang Bay—Depth over Wreck; Wreck-marking Light-Buoy and Buoy withdrawn.*

*No. 297 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1412 of 1919), are republished :—*

*(a) Depth over wreck :*

*Position.*—At a distance of  $2\frac{2}{10}$  miles,  $346^{\circ}$  (N.  $15^{\circ}$  W. *Mag.*), from Semarang flashing white light.

Lat.  $6^{\circ} 55'$  S., long.  $110^{\circ} 23\frac{1}{2}'$  E.

*Details.*—There is a depth of  $4\frac{1}{2}$  fathoms over the wreck situated in the above position.

*(b) Wreck-marking light-buoy and buoy withdrawn :*

*Details.*—The light-buoy painted green, with occulting white light, formerly situated in the above position, has been withdrawn, together with the R.W.H.S buoy with ball topmark formerly situated about three-quarters of a cable westward from the above position.

*Variation.*— $1^{\circ}$  E.

*Charts affected.*—No. 932, Plan of Semarang bay.

„ 1653, Island of Java—Western portion.

*Publication.*—Eastern Archipelago Pilot, Part II, 1913, page 118.

*Authority.*—Hague Notice No. 1569 of 1919. (*H. 5703-19.*)

## BAY OF BENGAL—TENASSERIM COAST.

*Yengan river—Uncharted rock at the entrance.*

*No. 298 (third publication).—The following Notice to Mariners, dated the 16th September 1919, issued by the Principal Port Officer, Burma, Rangoon, is republished :—*

*Position.*—At the entrance to Yengan river, Yengan Hill crest, bearing N.  $84\frac{1}{2}^{\circ}$  E., distant  $6\frac{1}{2}$  cables.

Sextant angles rocks.

Sail rock  $38^{\circ} 15'$ , Hummock  $115^{\circ} 55'$ , Yengan Hill  $216^{\circ}$   
Hill  $16^{\circ} 50'$  110 Hill  $100^{\circ} 05'$  45 Islet.

*Description.*—A rocky patch of about 100 feet diameter, having two heads awash at L. W. springs, with soundings of 2 fathoms sand near it.

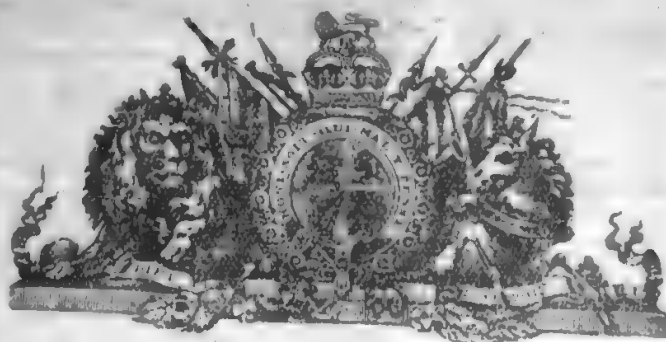
*Chart affected.*—No. 216a, Northern part of Mergui Archipelago.

*Authority.*—Master of the SS. "Jattra" through the Port Officer, Mergui.

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, OCTOBER 29, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*

CALCUTTA, the 20th October 1919.

### AFRICA—EAST COAST.

#### *Kisimayu Bay—Alterations to Beacons. Buoy established.*

No. 303 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 64M. of 1919), are republished:—

- (a) *Position*.—Of Kasimayu village.  
Lat.  $0^{\circ} 22' S.$ , long.  $42^{\circ} 33' E.$

*Details*.—Two wooden black and white horizontally striped beacons, on beach near pier, about half a mile east-south-eastward of Kisimayu fort, are being replaced by stone beacons, 20 feet from base to top, to be painted black with one white band in the middle, 6 feet broad.

- (b) *Position*.—At a distance of about 6 cables  $219^{\circ}$  ( $S. 45^{\circ} W. Mag.$ ) from a white pillar on Fawatu island in 5 fathoms of water.

*Description*.—A red conical buoy with spherical cage.

*Note*.—The flag staff on the fort is mounted on an open work wooden tower which is painted in black and white vertical stripes, *i.e.*, black sides with white centre.

*Variation*.— $6^{\circ} W.$

*Charts affected*.—No. 860, Kisimayu bay.  
„ 670, Juba or Dundas islands.  
„ 848, Malindi to Juba.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 511, 512.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.



## AFRICA—EAST COAST.

*Lamu Harbour—Light established.*

*No. 304 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 65 M. of 1919), are republished:—

*Position.*—On Shella Hill, near Signal Staff.

Lat.  $2^{\circ} 17' 49''$  S., long.  $40^{\circ} 54' 56''$  E.

*Date of exhibition.*—5th July 1918.

*Abridged description.*—Lt. F. Wh. 170 ft. vis. 11 m.

*Character.*—A fixed white light.

*Elevation.*—170 ft. above H. W. O. S.

*Visibility.*—11 miles in clear weather, from  $52^{\circ}$  (N.  $56^{\circ}$  E. Mag.) through south-west to  $232^{\circ}$  (S.  $56^{\circ}$  W. Mag.)

*Power.*—6th order dioptric port light (oil).

*Structure.*—Rectangular building painted dark red, 77 ft. 6 ins.

*Note.*—This light has been reported visible 18 miles in clear weather.

*Variation.*— $4^{\circ}$  W.

*Charts affected.*—No. 1747, Lamu harbour.

„ 668, Lamu. Manda and Patta bays.

„ 848, Malindi to Juba.

„ 597, Delagoa bay to Cape Guardafui.

*Publications.*—List of lights, Part VI, 1919, page 17.

East Coast of Africa Pilot, Part III, 1915, page 491.

*Authority.*—Commander-in-Chief, East Indies, dated 29th August 1919.

## AFRICA—EAST COAST.

*Lindi River—Tidal information, Prohibited anchorage, Berths and Beacons established.*

*No. 305 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 66M. of 1919), are republished:—

*Position.*—Lindi observation pillar.

Lat.  $9^{\circ} 59' 26''$  S., long.  $39^{\circ} 43' 38''$  E.

- (i) Tides.—Soundings taken by *Severn* during the Spring Tides of 4th and 5th July 1917 show that if Lindi "A" red outer fairway pillar buoy is passed close on the starboard hand and the beacons brought into transit but not opened, so that the lower beacon is to the southward of the upper beacon, least water (L. W. O. S.) may be expected as 17 feet.

The following data have been derived from tidal observations at Lindi during October and November 1917:—

H. W. F. & C.	... III h. 45 m. M.T.R.
Mean Spring Range	... 12 feet.
Mean Neap Range	... $4\frac{1}{2}$ feet.
Datum on tide pole	... 8 inches.
Highest tide	... 14 ft. 2 inches on tide pole.
Lowest tide	... Zero.

Spring Tides—The highest Spring Tide occurs about  $1\frac{1}{2}$  days after full and new moon. The tides appear to be regular and take 3 hours to rise and 6 hours to fall, obtaining their height and commencing to fall almost immediately. The A.M. tide is usually the highest.



**Neap Tides.**—At Neaps the tides are irregular and a range of only 2 feet 8 inches has been observed: On this occasion the tide never fell below 5 feet 9 inches on the tide pole and only rose to 8 feet 5 inches, this height being reached about 2 hours before the time for H. W. The tides seldom remain stationary at H. W. (with the above exception) but commence to fall almost immediately, but at L. W. they often remain stationary for 2 hours before commencing to rise.

The following depths may be expected on the Bar at High and Low water:—

Springs.		Neaps.	
H. W. 27 ft.	...	23½ ft.	
L. W. 15 ft.	...	19 ft.	

(2) **Prohibited Anchorage:—**

**Details.**—Ships are prohibited to anchor near a line, drawn to the direction of  $11^{\circ}$  (*N.  $17^{\circ}$  E. Mag.*) distant 20 cables from the rear beacon on Lindi, thence  $85^{\circ}$  (*S.  $89^{\circ}$  E. Mag.*) to seaward.

(3) **The Berths in Lindi are as follows:—**

**Details.**—Berths A, B, C, D, E and F are on the line Mbachiwonaki Beacon transit the shoulder on the Eastern slope of Mlima Atu, with:—

- "A" Berth Mlima Ngeka bearing  $261^{\circ}$  (*S.  $87^{\circ}$  W. Mag.*), distant 2 miles  $6\frac{1}{4}$  cables.
- "B" Berth Mlima Ngeka bearing  $266^{\circ}$  (*N.  $88^{\circ}$  W. Mag.*), distant 2 miles  $5\frac{1}{4}$  cables.
- "C" Berth Mlima Ngeka bearing  $270^{\circ}$  (*N.  $84^{\circ}$  W. Mag.*), distant 2 miles  $4\frac{1}{4}$  cables.
- "D" Berth Mlima Ngeka bearing  $274^{\circ}$  (*N.  $80^{\circ}$  W. Mag.*), distant 2 miles  $3\frac{1}{4}$  cables.
- "E" Berth Mlima Ngeka bearing  $279^{\circ}$  (*N.  $75^{\circ}$  W. Mag.*), distant 2 miles  $3\frac{1}{4}$  cables.
- "F" Berth Mlima Ngeka bearing  $283^{\circ}$  (*N.  $71^{\circ}$  W. Mag.*), distant 2 miles  $3\frac{1}{4}$  cables.

Berths "G" and "H" are as follows:—

- "G" Fort F. S. in line with red conical buoy bearing  $324^{\circ}$  (*N.  $30^{\circ}$  W. Mag.*) distant  $5\frac{1}{4}$  cables and Mbachiwonaki Beacon bearing  $230^{\circ}$  (*S.  $56^{\circ}$  W. Mag.*), distant 3 cables.
- "H" Three berths for ships not exceeding 300 feet, Southward of "G" berth.

**Remarks.**—Small marks have been erected on the foreshore; they consist of a white staff surmounted by a diamond with the letter of the berth in black, viz.:—"A" Mark in line with Mlima Ngeka goes through "A" berth, etc.

(4) **Beacons established.**

- (a) **Position.**—On the high land, at a distance of about  $6\frac{1}{4}$  cables  $241^{\circ}$  (*S.  $67^{\circ}$  W. Mag.*) from the rear leading beacon on Lindi.

**Details.**—A white lattice work beacon surmounted by a barrel has been erected in the above position.

**Remarks.**—This beacon is visible on all bearings from seaward over the Palm trees and when in line with the present leading beacons leads over Lindi Bar.

- (b) **Position.**—Near Dedongi Village, at a distance of about  $4\frac{1}{2}$  cables  $314^{\circ}$  (*N.  $40^{\circ}$  W. Mag.*) from observation spot on Mgau Mwanja.

**Details.**—A triangular beacon, 20 feet high, painted B. W. H. S., has been erected in the above position.

**Variation.**— $6^{\circ}$  W.



*Charts affected.*—No. 681, Lindi River

„ 1808, Cape Delgado to Kilwa.

*Publication.*—East Coast of Africa Pilot, Part III, 1915, pages 327, 380.

*Authority.*—Commander-in-Chief, East Indies, dated 29th August 1919.

#### AFRICA—EAST COAST.

##### *Mafia Channel—Information regarding buoys.*

*No. 306 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 67M. of 1919), are republished :—

(a) Shungumbili Pass Buoy.

*Details.*—Shungumbili pass buoy (situated N. E.  $3\frac{1}{2}$  miles from Shungumbili Island) has broken adrift.

*Remarks.*—This buoy is not shown on Admiralty Charts.

(b) Kwale Island Buoy.

*Position.*—Of Kwale Island.

Lat.  $7^{\circ} 25' S.$ , long.  $39^{\circ} 24' E.$

*Details.*—The spar buoy east of Kwale island has disappeared.

(c) Ras Kisimani, buoy southward of.

*Position.*—At a distance of about 2 miles 4 cables,  $174\frac{1}{2}^{\circ}$  (South Mag.) from Ras Kisimani.

*Details.*—The black conical buoy southward of Ras Kisimani has disappeared.

(d) Niororo Island Buoy.

*Position.*—At a distance of about  $1\frac{1}{2}$  miles,  $322\frac{1}{2}^{\circ}$  (N.  $32^{\circ} W.$  Mag.) from Niororo island.

*Details.*—This buoy has drifted 2 miles to the North Eastward from its position.

*Variation.*— $5\frac{1}{2}^{\circ} W.$

*Charts affected.*—No. 1032, Kilwa point and North Mafia channel.

„ 662, Kilwa point to Zanzibar channel.

*Publication.*—East Coast of Africa Pilot, Part III, 1915, pages 358, 362, 363, 366.

*Authority.*—Commander-in-Chief, East Indies, dated 29th August 1919.

#### AFRICA—EAST COAST.

##### *Msimbati channel—Beacons established ; Directions for entering Harbour.*

*No. 307 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 68M. of 1919), are republished :—

(a) *Position of Msimbati observation spot.*—

Lat.  $10^{\circ} 19' 22'' S.$ , long.  $40^{\circ} 23' 34'' E.$

*Details.*—A white triangular beacon has been erected in the position of the observation spot on Ras Maimbati.



(b) *Position*—At a distance of about 11 cables  $32^{\circ}$  (N.  $38^{\circ}$  E. *Mag.*) from position (a).

*Details*—A white triangular beacon has been erected in the above position.

*Remarks*—These beacon cannot be mistaken for each other, as Observation Spot beacon stands out conspicuously from Ras Msimbati.

*Note*—The high water line of Msimbati and Islands of Mana Hawanja and Mongo appear to be incorrectly charted.

(2) *Directions for Entering Harbour.*—

When entering the harbour, a line of bearing of Ras Msimbati Beacon  $198^{\circ}$  (S.  $24^{\circ}$  W. *Mag.*), although the correct one to enter and leave by, seems to lead too close to shoals off Ras Ruvura or at least to discoloured water.

It is thought therefore that Ras Msimbati may have grown out and it would seem advisable for ships entering or leaving this harbour to do so at L. W., or when the Sun is high in altitude. The shoals then are easily visible and ships can keep to the deep blue water.

*Variation*— $6^{\circ}$  W.

*Charts affected*—No. 690, Cape Delgado to Mikindani bay.  
„ 1808, Cape Delgado to Kilwa.

*Publication*—East Coast of Africa Pilot, Part III, 1915, pages 321, 322.

*Authority*—Commander-in-Chief, East Indies, dated 29th August 1919.

AFRICA—EAST COAST.

*Tanga Approaches*—Buoy relaid, Buoy disappeared.

No. 308 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 69M. of 1919), are republished :—

(a) *Position*.—At a distance of about 2 miles and  $2\frac{1}{2}$  cables  $95^{\circ}$  (S.  $80^{\circ}\frac{1}{2}$  E. *Mag.*) from Signal Station F. S. on Ras Kasone.  
Lat.  $5^{\circ} 3' 47''$  S., long.  $39^{\circ} 9' 53''$  E.

*Details*.—A black and white vertical striped buoy, with ball top mark, has been relaid to mark the north side of Dixon Bank.

(b) *Position*.—At a distance of about 2 cables, north eastward of northern end of Niule Reef.  
Lat.  $5^{\circ} 3\frac{1}{2}'$  S., long.  $39^{\circ} 12\frac{1}{2}'$  E.

*Details*.—A black Conical Reef buoy at the entrance to Tanga Ship Channel has disappeared.

*Variation*.— $4\frac{1}{2}^{\circ}$  W.

*Charts affected*.—No. 663, Mansa and Tanga bays.  
„ 1390, Chale point to Pangani.  
„ 664, Zanzibar to Malindi.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 449, 451.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.



## AFRICA—EAST COAST.

*Tunghi Bay—Buoys disappeared.*

No. 309 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 70M. of 1919), are republished:—

(a) *Position*.—Lat.  $10^{\circ} 46' 10''$  S., long  $40^{\circ} 34' 50''$  E.

(b) *Position*.—Lat.  $10^{\circ} 46' 00''$  S., long  $40^{\circ} 33' 10''$  E.

*Details*.—The two black buoys situated in the above positions have disappeared.

*Chart affected*.—No. 658, Ras Pekawi to Cape Delgado.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, page 315.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

## BAY OF BENGAL—ORISSA COAST.

*Dhamra river—Extension of Kanika Sand disappeared.*

No. 310 (first publication).—

*Former Notice*.—No. 241 of 1919.

*Subject*.—The extension of the Kanika Sand, Dhamra river, off Shortt's island, has completely disappeared and the channel is now clear.

*Charts affected*.—No. 829, Cocanada to Bassein river.

„ 754, Dhamra river.

*Publication*.—Bay of Bengal Pilot, 1910, page 278. Revised Supplement (2) 1917.

*Authority*.—Port Officer, Chandballi, letter No. 673P., dated the 16th October 1919.

The 15th October 1919.

## TASMANIA, NORTH COAST.

*Table Cape Light—Intended alteration in character; Signal Station to be discontinued.*

No. 302 (second publication).—

*Subject*.—The fixed White Light with Red Sectors on Table Cape will be replaced by a Group Flashing White Light with Red Sectors (U); and, further, that the Signal Station will be discontinued, on or about 31st January, 1920.

*Position*.—Near extreme of Table Cape.

Lat.  $40^{\circ} 57'$  S., long.  $145^{\circ} 45\frac{1}{4}'$  E. on Chart No. 1695b.

*Details*.—The Fixed White Light with Red Sectors will be replaced by a New Light having the undermentioned characteristics:—

*Character*.—Group Flashing White Light with Red Sectors, showing two flashes in quick succession every six seconds, thus:—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{4}$ sec.	1 sec.	$\frac{1}{4}$ sec.	$\frac{1}{4}$ secs.

*Sectors*.—White from  $132^{\circ}$  (S.  $57^{\circ}$  E. Mag.) through South and West to  $296^{\circ}$  (N.  $73^{\circ}$  W. Mag.); Red inshore of these bearings.

*Visibility*.—White, 24 miles. Red, 8 miles.

*Power*.—White, 5,000 candles. Red, 2,000 candles.



**Remarks.**—The Light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

**Note.**—No further notice will be given.

**Charts affected.**—No. 1695b, Bass Strait, Western sheet.  
 „ 1079, Tasmania.  
 „ 2759b, Australia, Southern portion.  
 „ 788, Melbourne to Cape Horn, Western sheet.

**Publications.**—List of Lights and Time Signals, Part VI, 1919, No. 2794.

Australia Pilot, Vol. II, 1918, pages 283, 284.

**Authority.**—Melbourne Notice No. 12 of 1919.

W. K. THYNE, COMDR., R.I.M.,  
 Deputy Port Officer of Calcutta.

The 6th October 1919.

#### GULF OF ADEN.

##### *Submerged wreckage reported.*

**No. 299 (third publication).**—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 63M. of 1919), are republished:—

**Détails.**—Information has been received from the Resident Naval Officer, Aden, that the Master of S. S. *City of Agra* reports having struck submerged wreckage on the 10th September 1919, in the following position.

**Position.**—Lat. 12° 49' N.  
 Long. 49° 45' E.

**Charts temporarily affected.**—No. 6a, Gulf of Aden, eastern portion.  
 „ 1012, Arabian sea.  
 „ 748b, Indian ocean, northern portion.

**Publication.**—Red Sea and Gulf of Aden Pilot, 1909, page 502.

**Authority.**—The Director, Royal Indian Marine, dated Bombay, 13th September 1919.

#### TASMANIA—NORTH COAST.

**Mersey Bluff (Devonport) Light—Intended alteration in Character.**—Signal Station to be discontinued.

**No. 300 (third publication).**—

**Subject.**—The Fixed White Light with Red Sectors on Mersey Bluff (Devonport), will be replaced by a Group Flashing White Light with Red Sectors (U); and, further, that the Signal Station will be discontinued, on or about 15th January 1920.

**Position.**—Near extreme of Mersey Bluff.

Lat. 41° 09½' S.; long. 146° 23½' E. on chart No. 1695a.



*Details.*—The Fixed White Light with Red Sectors will be replaced by a new light having the undermentioned characteristics:—

*Character*—Group Flashing White Light with Red Sectors, showing four flashes in quick succession every twelve seconds, thus:—

Flash	Eclipse	Flash	Eclipse	Flash	Eclipse	Flash	Eclipse.
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$7\frac{1}{2}$ secs.

*Sectors.*—Red from  $86^{\circ}$  (N.  $77^{\circ}$  E. Mag.) through East to  $121^{\circ}$  (S.  $68^{\circ}$  E. Mag.); White from  $121^{\circ}$  (S.  $68^{\circ}$  E. Mag.) through South to  $225^{\circ}$  (S.  $36^{\circ}$  W. Mag.); Red from  $225^{\circ}$  (S.  $36^{\circ}$  W. Mag.) to  $260^{\circ}$  (S.  $71^{\circ}$  W. Mag.). Obscured elsewhere.

*Visibility.*—White, 16 miles. Red, 7 miles.

*Power.*—White, 1,500 candles. Red, 600 candles.

*Remarks.*—The Light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1695a, Bass strait.

„ 1079, Tasmania.

„ 3717, Plans in Tasmania—River Mersey.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2800.

Australia Pilot, Vol. II, 1918, page 273.

*Authority.*—Melbourne Notice No. 11 of 1919.

#### PORTUGUESE EAST AFRICA.

*Mozambique Harbour*—Amended Caution with regard to vessels Anchoring.

*No. 301 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1437 of 1919), are republished:—

*Former Notice.*—No. 960 of 1919. (This office No. 191 of 1919).

*Position.*—Mozambique island, lat.  $15^{\circ} 02'$  S., long.  $40^{\circ} 44'$  E.

*Details.*—The cautionary note on the charts is to be amended to read:—

“Vessels are cautioned against anchoring in the channels E. and N. E. of Mozambique I., and within a radius of 2 cables from the N. end of Sebastian Fort, Mozambique I., as there is great danger of breaking the telegraph cables.”

*Charts affected.*—No. 652, Mozambique harbour.

„ 653, Ports of Conducia, Mozambique and Mokambo.

*Publication.*—Africa Pilot, Part III, 1915, page 282.

*Authority.*—H. M. S. Hyacinth Hyd. Note No. 5 of 1919. (H. 4277/19).

E. STOCKEN, CAPTAIN, R.I.M.,

Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 5. 1919.

## APPENDIX.

### NOTICE TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 27th October 1919.

### BRITISH POSSESSIONS.

#### *Caution when approaching British Ports.*

No. 311 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1520 of 1919), are republished :—

### PART I.

#### CLOSING OF PORTS.

Former Notice.—No. 1 of 1919 (This office No. 53 of 1919) hereby cancelled.

(1) My Lords Commissioners of the Admiralty, having taken into consideration the fact that it may be necessary to forbid all entrance to certain ports of the Empire, this is to give Notice that on approaching the shores of the United Kingdom, or any of the ports or localities of the British Empire, referred to in Part III of this Notice, a sharp look-out should be kept for the signals described in the following paragraph, and for the vessels mentioned in paragraph (5), Part II, of this Notice, and the distinguishing and other signals made by them. In the event of such signals being displayed, the port or locality should be approached with great caution, as it may be apprehended that obstructions may exist.

(2) If entrance to a port is prohibited, three *red* vertical lights by night, or three *red* vertical balls by day, will be exhibited in some conspicuous position, in or near to its approach, which signals will also be shown by the vessels indicated in paragraph (5), Part II, of this Notice.

If these signals are displayed, vessels must approach the port with the greatest caution and implicitly obey all orders or signals given them by the Examination vessel or signal station.



(3) At all the ports or localities at home or abroad referred to in Part III of this Notice, search-lights are occasionally exhibited for exercise.

Instructions have been given to avoid directing moveable search-lights during practice on to vessels under way, but mariners are warned that great care should be taken to keep a sharp look-out for the signals indicated in paragraph (2) above, when search-lights are observed to be working.

## PART II.

### EXAMINATION SERVICE.

(4) In certain circumstances it is also necessary to take special measures to examine vessels desiring to enter the ports or localities at home or abroad, referred to in Part III of this Notice.

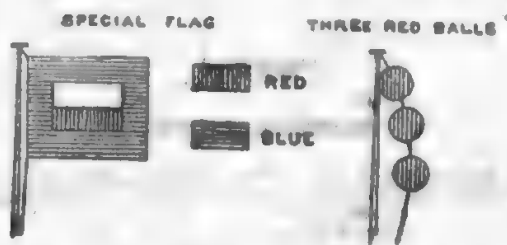
(5) In such cases vessels carrying the distinguishing flags or lights mentioned in paragraph (7) will be charged with the duty of examining ships which desire to enter the ports and of allotting positions in which they shall anchor. If Government vessels, or vessels belonging to the local port authority, are found patrolling in the offing, merchant vessels are advised to communicate with such vessels with a view to obtaining information as to the course on which they should approach the port. Such communication will not be necessary in cases where the pilot on board has already received this information from the local authorities.

(6) As the institution of the Examination Service at any port will never be publicly advertised, especial care should be taken in approaching the ports, by day or night, to keep a sharp look-out for any vessel carrying the flags or lights mentioned in paragraph (7), and to be ready to "bring to" at once when hailed by her or warned by the firing of a gun or sound rocket.

In entering by night any of the ports mentioned in Part III, serious delay and risk will be avoided if four efficient all round lamps, two *red* and two *white*, are kept available for use.

(7) **By day** the distinguishing flags of the Examination Steamer will be a special flag (white and red horizontal surrounded by a blue border) and a blue ensign.

Also, three red vertical balls if the port is closed.



**By night** the steamer will carry :—

- (a) Three *red* vertical lights if the port is closed.
- (b) Three *white* vertical lights if the port is open.

The above lights will be carried in addition to the ordinary navigation lights, and will show an unbroken light around the horizon.

(8) Masters are warned that, when approaching a British port where the Examination Service is in force, they must have the distinguishing signal of their vessel ready to hoist immediately the Examination Steamer makes the signal.

(9) Masters are warned that, before attempting to enter any of these ports when the Examination Service is in force, they must in their own interests strictly obey all instructions given to them by the Examination Steamer.

Whilst at anchor in the Examination Anchorage, Masters are warned that they must not lower any boats, communicate with the shore, work cables, move the ship, or allow anyone to leave the ship, without permission from the Examination Steamer (except to avoid accident).



(10) In case of fog, Masters are enjoined to use the utmost care, and the port should be approached with caution.

(11) The order prohibiting merchant vessels from making use of private signals when approaching ports is no longer in force.

(12) The pilots attached to the ports will be acquainted with the regulations to be followed.

### PART III.

#### PORTS OR LOCALITIES REFERRED TO.

##### *United Kingdom.*

Alderney.	Guernsey.	Portsmouth.
Barrow.	Hartlepool.	Queenstown.
Barry.	Harwich.	River Humber.
Belfast.	Inverness firth.	" Mersey.
Berehaven.	Jersey.	" Tay.
Blyth.	Lerwick.	" Tees.
Clyde.	Lough Swilly.	" Thames.
Cromarty.	Milford Haven	" Tyne.
Dover.	Newhaven.	Scapa Flow.
Falmouth.	Plymouth.	Sheerness.
Firth of Forth.	Portland.	Sunderland.

##### *Canada.*

Esquimalt.	Halifax.	Quebec.
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##### *Mediterranean.*

Gibraltar.	Malta.
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##### *Indian Ocean.*

Aden.	Colombo.	Mauritius.
Bombay.	Karachi.	Rangoon.
Calcutta.	Madras.	

##### *China Sea.*

Hong Kong.	Singapore.
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##### *Africa.*

Durban.	Simons bay.
Sierra Leone.	Table bay.

##### *Australia.*

Adelaide.	Melbourne.	Sydney.
Brisbane.	Newcastle.	Thursday island.
Fremantle.		

##### *Tasmania.*

Hobart.

##### *New Zealand.*

Auckland.	Port Lyttelton.
Otago.	Wellington.

##### *West Indies.*

Bermuda.	Port Royal, Jamaica.
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**PART IV.****SWEEPING OPERATIONS.**

Notice is hereby given that, under the Defence of the Realm (Consolidation) Regulations, 1914, the following Regulations have been made by the Lords Commissioners of the Admiralty, and are now in force.

H. M. Vessels are constantly engaged, both singly and in pairs, in sweeping operations off the coasts of the United Kingdom, and whilst so engaged they are hampered to a very considerable extent in their manœuvring powers.

With a view to indicating the nature of the work on which they are engaged, these vessels will show the signals hereinafter mentioned, and for the public safety all other vessels, whether steamers or sailing craft, must keep out of the way of vessels flying these signals and not approach them inside the distances mentioned herein, specially remembering that it is dangerous to pass inside these distances or between the vessels of a pair, as the vessels may have mines trailing in their sweeps, and also on account of the danger caused to traffic if mine-sweepers have to slip their sweeps to get out of the way of vessels.

**1. SIGNALS THAT WILL BE SHOWN BY DAY.****(a) By vessels working singly :—**

A black ball at the foremast head, and a similar ball at each yard-arm or where they can best be seen.

Vessels showing this signal are not to be approached nearer than 300 yards.

**(b) By vessels working in pairs :—**

A black ball at the foremast head, and a similar ball at the yard-arm or where it can best be seen, on that side on which it is dangerous to pass.

Vessels are not to pass within a distance of 400 yards astern of a single pair of sweepers, or when more than one pair are working in company within a distance of 400 yards astern of rear pair. They are on no account to attempt to pass between pairs working in company.

**2. SIGNALS THAT WILL BE SHOWN BY NIGHT.**

As for day, except that all round green lights will be used in place of the black balls.

**CAUTION.**

Part IV of this Admiralty Notice to Mariners is issued under the provisions of the Defence of the Realm (Consolidation) Regulations, 1914, and failure to comply strictly with the directions contained in it will constitute an offence against those Regulations.

Any person found guilty of such an offence is liable to severe penalties, both of imprisonment and fine.

Any person aiding or abetting the commission of such an offence is himself guilty of an offence against the Regulations.

Attention is also drawn to the fact that any infringement of the directions contained in Part IV of this Admiralty Notice to Mariners is liable to result in the detention of the ship or vessel.

*Note.*

This Notice is a revision of Notice No. 1 of 1919 (This office No. 53 of 919).

*Authority.*—The Lords Commissioners of the Admiralty. (H. 6624/19.)



The 20th October 1919.

AFRICA—EAST COAST.

*Kisimayu Bay—Alterations to Beacons. Buoy established.*

No. 303 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 64M. of 1919), are republished:—

(a) *Position*.—Of Kasimayu village.

Lat.  $0^{\circ} 22' S.$ , long.  $42^{\circ} 33' E.$

*Details*.—Two wooden black and white horizontally striped beacons, on beach near pier, about half a mile east-south-eastward of Kisimayu fort, are being replaced by stone beacons, 20 feet from base to top, to be painted black with one white band in the middle, 6 feet broad.

(b) *Position*.—At a distance of about 6 cables  $219^{\circ}$  ( $S. 45^{\circ} W. Mag.$ ) from a white pillar on Fawatu island in 5 fathoms of water.

*Description*.—A red conical buoy with spherical cage.

*Note*.—The flag staff on the fort is mounted on an open work wooden tower which is painted in black and white vertical stripes, i.e., black sides with white centre.

*Variation*.— $6^{\circ} W.$

*Charts affected*.—No. 860, Kisimayu bay.

„ 670, Juba or Dundas islands.

„ 848, Malindi to Juba.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 511, 512.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

AFRICA—EAST COAST.

*Lamu Harbour—Light established.*

No. 304 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 65 M. of 1919), are republished:—

*Position*.—On Shella Hill, near Signal Staff.

Lat.  $2^{\circ} 17' 49'' S.$ , long.  $40^{\circ} 54' 56'' E.$

*Date of exhibition*.—5th July 1918.

*Abridged description*.—Lt. F. Wh. 170 ft. vis. 11 m.

*Character*.—A fixed white light.

*Elevation*.—170 ft. above H. W. O. S.

*Visibility*.—11 miles in clear weather, from  $52^{\circ}$  ( $N. 56^{\circ} E. Mag.$ ) through south-west to  $232^{\circ}$  ( $S. 56^{\circ} W. Mag.$ )

*Power*.—6th order dioptric port light (oil).

*Structure*.—Rectangular building painted dark red, 77 ft. 6 ins.

*Note*.—This light has been reported visible 18 miles in clear weather.

*Variation*.— $4^{\circ} W.$

*Charts affected*.—No. 1747, Lamu harbour.

„ 668, Lamu Manda and Patta bays.

„ 848, Malindi to Juba.

„ 597, Delagoa bay to Cape Guardafui.

*Publications*.—List of lights, Part VI, 1919, page 17.

East Coast of Africa Pilot, Part III, 1915, page 491.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.



## AFRICA—EAST COAST.

*Lindi River—Tidal information, Prohibited anchorage, Berths and Beacons established.*

No. 305 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 66M. of 1919), are republished:—

*Position.*—Lindi observation pillar.

Lat.  $9^{\circ} 59' 26''$  S., long.  $39^{\circ} 43' 38''$  E.

- (i) *Tides.*—Soundings taken by *Severn* during the Spring Tides of 4th and 5th July 1917 show that if Lindi "A" red outer fairway pillar buoy is passed close on the starboard hand and the beacons brought into transit but not opened, so that the lower beacon is to the southward of the upper beacon, least water (L. W. O. S.) may be expected as 17 feet.

The following data have been derived from tidal observations at Lindi during October, and November 1917:—

H. W. F. & C.	...	III h. 45 m. M.T.R.
Mean Spring Range	...	12 feet.
Mean Neap Range	...	$4\frac{1}{2}$ feet.
Datum on tide pole	...	8 inches.
Highest tide	...	14 ft. 2 inches on tide pole.
Lowest tide	...	Zero.

*Spring Tides.*—The highest Spring Tide occurs about  $1\frac{1}{2}$  days after full and new moon. The tides appear to be regular and take 3 hours to rise and 6 hours to fall, obtaining their height and commencing to fall almost immediately. The A.M. tide is usually the highest.

*Neap Tides.*—At Neaps the tides are irregular and a range of only 2 feet 8 inches has been observed: On this occasion the tide never fell below 5 feet 9 inches on the tide pole and only rose to 8 feet 5 inches, this height being reached about 2 hours before the time for H. W. The tides seldom remain stationary at H. W. (with the above exception) but commence to fall almost immediately, but at L. W. they often remain stationary for 2 hours before commencing to rise.

The following depths may be expected on the Bar at High and Low water:—

Springs.		Neaps.
H. W. 27 ft.	...	23 $\frac{1}{2}$ ft.
L. W. 15 ft.	...	19 ft.

(2) *Prohibited Anchorage:*—

*Details.*—Ships are prohibited to anchor near a line, drawn to the direction of  $11^{\circ}$  (N.  $17^{\circ}$  E. *Mag.*) distant 20 cables from the rear beacon on Lindi, thence  $85^{\circ}$  (S.  $89^{\circ}$  E. *Mag.*) to seaward.

(3) *The Berths in Lindi are as follows:*—

*Details.*—Berths A, B, C, D, E and F are on the line Mbachiwonaki Beacon transit the shoulder on the Eastern slope of Mlima Atu, with:—

- "A" Berth Mlima Ngeka bearing  $261^{\circ}$  (S.  $87^{\circ}$  W. *Mag.*), distant 2 miles  $6\frac{1}{2}$  cables.
- "B" Berth Mlima Ngeka bearing  $266^{\circ}$  (N.  $88^{\circ}$  W. *Mag.*), distant 2 miles  $5\frac{1}{2}$  cables.
- "C" Berth Mlima Ngeka bearing  $270^{\circ}$  (N.  $84^{\circ}$  W. *Mag.*), distant 2 miles  $4\frac{1}{2}$  cables.
- "D" Berth Mlima Ngeka bearing  $274^{\circ}$  (N.  $80^{\circ}$  W. *Mag.*), distant 2 miles  $3\frac{1}{2}$  cables.
- "E" Berth Mlima Ngeka bearing  $279^{\circ}$  (N.  $75^{\circ}$  W. *Mag.*), distant 2 miles  $3\frac{1}{2}$  cables.
- "F" Berth Mlima Ngeka bearing  $283^{\circ}$  (N.  $71^{\circ}$  W. *Mag.*), distant 2 miles  $3\frac{1}{2}$  cables.



Berths "G" and "H" are as follows:—

- "G" Fort F. S. in line with red conical buoy bearing  $324^{\circ}$  (N.  $30^{\circ}$  W. Mag.) distant  $5\frac{1}{2}$  cables and Mbachiwonaki Beacon bearing  $230^{\circ}$  (S.  $56^{\circ}$  W. Mag.), distant 3 cables.  
 "H" Three berths for ships not exceeding 300 feet, Southward of "G" berth.

*Remarks.*—Small marks have been erected on the foreshore; they consist of a white staff surmounted by a diamond with the letter of the berth in black, viz.:—"A" Mark in line with Mlima Ngeka goes through "A" berth, etc.

(4) *Beacons established.*

(a) *Position.*—On the high land, at a distance of about  $6\frac{1}{2}$  cables  $241^{\circ}$  (S.  $67^{\circ}$  W. Mag.) from the rear leading beacon on Lindi.

*Details.*—A white lattice work beacon surmounted by a barrel has been erected in the above position.

*Remarks.*—This beacon is visible on all bearings from seaward over the Palm trees and when in line with the present leading beacons leads over Lindi Bar.

(b) *Position.*—Near Dedongi Village, at a distance of about  $4\frac{1}{2}$  cables  $314^{\circ}$  (N.  $40^{\circ}$  W. Mag.) from observation spot on Mgau Mwanja.

*Details.*—A triangular beacon, 20 feet high, painted B. W. H. S., has been erected in the above position.

*Variation.*— $6^{\circ}$  W.

*Charts affected.*—No. 681, Lindi River.

" 1808, Cape Delgado to Kilwa.

*Publication.*—East Coast of Africa Pilot, Part III, 1915, pages 327, 330.

*Authority.*—Commander-in-Chief, East Indies, dated 29th August 1919.

AFRICA—EAST COAST.

*Mafia Channel—Information regarding buoys.*

No. 306 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 67M. of 1919), are republished:—

(a) Shungumbili Pass Buoy.

*Details.*—Shungumbili pass buoy (situated N. E.  $3\frac{1}{2}$  miles from Shungumbili Island) has broken adrift.

*Remarks.*—This buoy is not shown on Admiralty Charts.

(b) Kwale Island Buoy.

*Position.*—Of Kwale Island.

Lat.  $7^{\circ} 25' S.$ , long.  $39^{\circ} 24' E.$

*Details.*—The spar buoy east of Kwale island has disappeared.

(c) Ras Kisimani, buoy southward of.

*Position.*—At a distance of about 2 miles 4 cables,  $174\frac{1}{2}^{\circ}$  (South Mag.) from Ras Kisimani.

*Details.*—The black conical buoy southward of Ras Kisimani has disappeared.

(d) Niororo Island Buoy.

*Position.*—At a distance of about  $1\frac{1}{2}$  miles,  $322\frac{1}{2}^{\circ}$  (N.  $32^{\circ}$  W. Mag.) from Niororo island.

*Details.*—This buoy has drifted 2 miles to the North Eastward from its position.

*Variation.*— $5\frac{1}{2}^{\circ}$  W.

*Charts affected.*—No. 1032, Kilwa point and North Mafia channel.

" 662, Kilwa point to Zanzibar channel.



*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 358, 362, 363, 366.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

#### AFRICA—EAST COAST.

*Msimbati channel—Beacons established; Directions for entering Harbour.*

*No. 307 (second publication)*.—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 68M. of 1919), are republished:—

(a) *Position of Msimbati observation spot*.—

Lat.  $10^{\circ} 19' 22''$  S., long.  $40^{\circ} 23' 34''$  E.

*Details*.—A white triangular beacon has been erected in the position of the observation spot on Ras Msimbati.

(b) *Position*.—At a distance of about 11 cables  $32^{\circ}$  (N.  $38^{\circ}$  E. Mag.) from position (a).

*Details*.—A white triangular beacon has been erected in the above position.

*Remarks*.—These beacons cannot be mistaken for each other, as Observation Spot beacon stands out conspicuously from Ras Msimbati.

*Note*.—The high water line of Msimbati and Islands of Mana Hawanja and Mungo appear to be incorrectly charted.

(2) *Directions for Entering Harbour*.—

When entering the harbour, a line of bearing of Ras Msimbati Beacon  $198^{\circ}$  (S.  $24^{\circ}$  W. Mag.), although the correct one to enter and leave by, seems to lead too close to shoals off Ras Ruvura or at least to discoloured water.

It is thought therefore that Ras Msimbati may have grown out and it would seem advisable for ships entering or leaving this harbour to do so at L. W., or when the Sun is high in altitude. The shoals then are easily visible and ships can keep to the deep blue water.

*Variation*.— $6^{\circ}$  W.

*Charts affected*.—No. 690, Cape Delgado to Mikindani bay.

„ 1808, Cape Delgado to Kilwa.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 321, 322.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

#### AFRICA—EAST COAST.

*Tanga Approaches—Buoy relaid, Buoy disappeared.*

*No. 308 (second publication)*.—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 69M. of 1919), are republished:—

(a) *Position*.—At a distance of about 2 miles and  $2\frac{1}{2}$  cables  $95^{\circ}$  (S.  $80^{\circ}\frac{1}{2}$  E. Mag.) from Signal Station F. S. on Ras Kasone.

Lat.  $5^{\circ} 3' 47''$  S., long.  $39^{\circ} 9' 53''$  E.

*Details*.—A black and white vertical striped buoy, with ball top mark, has been relaid to mark the north side of Dixon Bank.



(b) *Position*.—At a distance of about 2 cables, north eastward of northern end of Niule Reef.

Lat.  $5^{\circ} 34'$  S., long.  $39^{\circ} 12\frac{1}{2}'$  E.

*Details*.—A black Conical Reef buoy at the entrance to Tanga Ship Channel has disappeared.

*Variation*.— $4\frac{1}{2}^{\circ}$  W.

*Charts affected*.—No. 663, Mansa and Tanga bays.  
 „ 1390, Chale point to Pangani.  
 „ 664, Zanzibar to Malindi.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 449, 451.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

#### AFRICA—EAST COAST.

##### *Tungli Bay—Buoys disappeared.*

No. 309 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 70M. of 1919), are republished :—

(a) *Position*.—Lat.  $10^{\circ} 46' 10''$  S., long.  $40^{\circ} 34' 50''$  E.

(b) *Position*.—Lat.  $10^{\circ} 46' 00''$  S., long.  $40^{\circ} 33' 10''$  E.

*Details*.—The two black buoys situated in the above positions have disappeared.

*Chart affected*.—No. 658, Ras Pekawi to Cape Delgado.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, page 315.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

#### BAY OF BENGAL—ORISSA COAST.

##### *Dhamra river—Extension of Kanika Sand disappeared.*

No. 310 (second publication).—

*Former Notice*.—No. 241 of 1919.

*Subject*.—The extension of the Kanika Sand, Dhamra river, off Shortt's island, has completely disappeared and the channel is now clear.

*Charts affected*.—No. 829, Cocanada to Bassein river.  
 „ 754, Dhamra river.

*Publication*.—Bay of Bengal Pilot, 1910, page 278. Revised Supplement (2) 1917.

*Authority*.—Port Officer, Chandballi, letter No. 673P., dated the 16th October 1919.

The 15th October 1919.

#### TASMANIA, NORTH COAST.

##### *Table Cape Light—Intended alteration in character; Signal Station to be discontinued.*

No. 302 (third publication).—

*Subject*.—The fixed White Light with Red Sectors on Table Cape will be replaced by a Group Flashing White Light with Red Sectors (U); and, further, that the Signal Station will be discontinued, on or about 31st January, 1920.



*Position.*—Near extreme of Table Cape.

Lat.  $40^{\circ} 57'$  S., long.  $145^{\circ} 45'$  E. on Chart No. 1695b.

*Details.*—The Fixed White Light with Red Sectors will be replaced by a New Light having the undermentioned characteristics :—

*Character.*—Group Flashing White Light with Red Sectors, showing two flashes in quick succession every six seconds, thus :—

Flash	Eclipse	Flash	Eclipse
$\frac{1}{2}$ sec.	1 sec.	$\frac{1}{2}$ sec.	$4\frac{1}{2}$ secs.

*Sectors.*—White from  $132^{\circ}$  (S.  $57^{\circ}$  E. Mag.) through South and West to  $296^{\circ}$  (N.  $73^{\circ}$  W. Mag.); Red inshore of these bearings.

*Visibility.*—White, 24 miles. Red, 8 miles.

*Power.*—White, 5,000 candles. Red, 2,000 candles.

*Remarks.*—The Light will be unwatched. The Signal Station will be discontinued, and the Lightkeepers withdrawn. The other details of the light will remain unchanged.

*Note.*—No further notice will be given.

*Charts affected.*—No. 1695b, Bass Strait, Western sheet.

„ 1079, Tasmania.

„ 2759b, Australia, Southern portion.

„ 788, Melbourne to Cape Horn, Western sheet.

*Publications.*—List of Lights and Time Signals, Part VI, 1919, No. 2794.

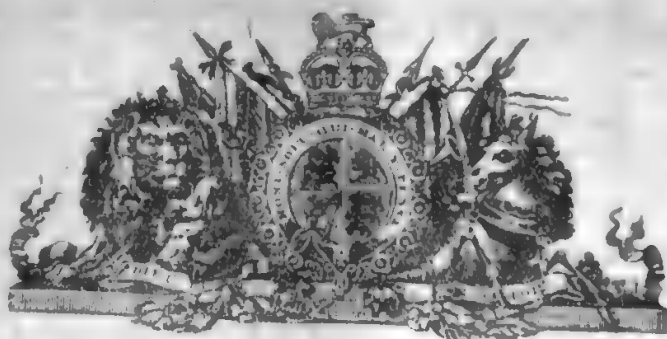
Australia Pilot, Vol. II, 1918, pages 283, 284.

*Authority.*—Melbourne Notice No. 12 of 1919.

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 12. 1919.

## APPENDIX.

### NOTICE TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 3rd November 1919.

### MALACCA STRAIT.

#### *Penang Harbour—Shoal reported.*

No. 312 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1581 of 1919), are re-published:—

*Position*.—Lat.  $5^{\circ} 21' 47''$  N., long.  $100^{\circ} 21' 10''$  E.

*Depth*.—About 2 fathoms.

*Note*.—The shoal is to be marked "*Repd. (1919)*" on the charts.

*Charts affected*.—No. 3732, Penang harbour.

„ 1366, Penang harbour and approaches.

„ 793, Butang group to Pulo Berhala.

*Publication*.—China Sea Pilot, Vol. I., 1916, page 176.

*Authority*.—Board of Trade. (*H. 6350/19.*)

### CHINA SEA—FORMOSA STRAIT.

#### *Formosa Banks—Amended Depths on Shoals.*

No. 313 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1593 of 1919), are re-published:—

*Former Notice*.—No. 364 of 1918. (*This Office No. 147 of 1918.*)

(a) *Position*.—Lat.  $23^{\circ} 01\frac{1}{4}'$  N., long.  $118^{\circ} 36'$  E.

*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart.

(b) *Position*.—Lat.  $23^{\circ} 01'$  N., long.  $118^{\circ} 30\frac{1}{2}'$  E.

*Depth*.— $4\frac{1}{2}$  fathoms, instead of  $3\frac{1}{2}$  fathoms shown on chart.

(c) *Position*.—Lat.  $22^{\circ} 56'$  N., long.  $118^{\circ} 35'$  E.

*Depth*.— $5\frac{1}{2}$  fathoms, instead of 4 fathoms shown on chart.



(d) *Position*.—Lat.  $22^{\circ} 54\frac{1}{2}'$  N., long.  $118^{\circ} 42\frac{1}{2}'$  E.

*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart

(e) *Position*.—Lat.  $22^{\circ} 45\frac{1}{2}'$  N., long.  $118^{\circ} 13\frac{1}{2}'$  E.

*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart.

*Charts affected*.—No. 1968, Formosa island and strait.

„ 26616, China sea, northern portion—eastern sheet.

„ 1262, Hongkong to Gulf of Liau-tung.

„ 1263, China sea.

„ 2683, Pacific ocean.

„ 2483, Atlantic and Indian oceans, &c.

„ 2937, Oceanic soundings, Indian and Western oceans.

*Publication*.—China Sea Pilot, Vol. V., 1912, pages 134, 135.

*Authority*.—Tokyo Notice No. 256 of 1919. (H. 6496/19.)

#### JAPAN, HONSHU—GULF OF TOKYO.

*Yokosuka Naval Port—Submerged Obstruction removed.*

No. 314 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1595 of 1919), are republished:—

*Position*.—At a distance of 6 cables,  $55^{\circ}$  (N.  $60^{\circ}$  E. Mag.), from the northern extremity of Sarushima.

Lat.  $35^{\circ} 17\frac{1}{2}'$  N., long.  $139^{\circ} 42\frac{1}{2}'$  E.

*Details*.—The dangerous submerged obstructions which formerly existed in the vicinity of the position given above have been removed, and the note with reference to them on the charts is to be expunged, together with the small circular area which indicated the position.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 3548, Yokohama to Uraga.

„ 2657, Gulf of Tokyo or Yedo.

„ 953, Omai saki to Tsurugi saki.

*Publication*.—Japan Pilot, 1914, page 260; Revised Supplement (2), 1919.

*Authority*.—Tokyo Notice No. 211 of 1919. (H. 5849/19.)

The 27th October 1919.

#### BRITISH POSSESSIONS.

*Caution when approaching British Ports.*

No. 311 (*second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1520 of 1919), are republished:—

#### PART I.

##### CLOSING OF PORTS.

Former Notice.—No. 1 of 1919 (This office No. 53 of 1919) hereby cancelled.

(1) My Lords Commissioners of the Admiralty, having taken into consideration the fact that it may be necessary to forbid all entrance to certain ports of the Empire, this is to give Notice that on approaching the shores of the United Kingdom, or any of the ports or localities of the British Empire, referred to in Part III of this Notice, a sharp look-out should be kept for the signals described in the following paragraph, and for the vessels



mentioned in paragraph (5), Part II, of this Notice, and the distinguishing and other signals made by them. In the event of such signals being displayed, the port or locality should be approached with great caution, as it may be apprehended that obstructions may exist.

(2) If entrance to a port is prohibited, three *red* vertical lights by night, or three *red* vertical balls by day, will be exhibited in some conspicuous position, in or near to its approach, which signals will also be shown by the vessels indicated in paragraph (5), Part II, of this Notice.

If these signals are displayed, vessels must approach the port with the greatest caution and implicitly obey all orders or signals given them by the Examination vessel or signal station.

(3) At all the ports or localities at home or abroad referred to in Part III of this Notice, search-lights are occasionally exhibited for exercise.

Instructions have been given to avoid directing moveable search-lights during practice on to vessels under way, but mariners are warned that great care should be taken to keep a sharp look-out for the signals indicated in paragraph (2) above, when search-lights are observed to be working.

## PART II.

### EXAMINATION SERVICE.

(4) In certain circumstances it is also necessary to take special measures to examine vessels desiring to enter the ports or localities at home or abroad, referred to in Part III of this Notice.

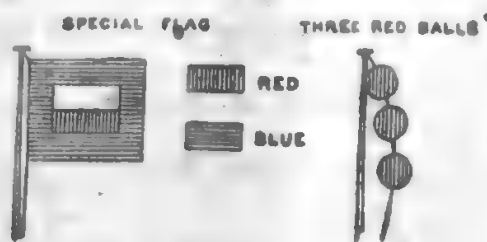
(5) In such case, vessels carrying the distinguishing flags or lights mentioned in paragraph (7) will be charged with the duty of examining ships which desire to enter the ports and of allotting positions in which they shall anchor. If Government vessels, or vessels belonging to the local port authority, are found patrolling in the offing, merchant vessels are advised to communicate with such vessels with a view to obtaining information as to the course on which they should approach the port. Such communication will not be necessary in cases where the pilot on board has already received this information from the local authorities.

(6) As the institution of the Examination Service at any port will never be publicly advertised, especial care should be taken in approaching the ports, by day or night, to keep a sharp look-out for any vessel carrying the flags or lights mentioned in paragraph (7), and to be ready to "bring to" at once when hailed by her or warned by the firing of a gun or sound rocket.

In entering by night any of the ports mentioned in Part III, serious delay and risk will be avoided if four efficient all round lamps, two *red* and two *white*, are kept available for use.

(7) **By day** the distinguishing flags of the Examination Steamer will be a special flag (white and red horizontal surrounded by a blue border) and a blue ensign.

Also, three red vertical balls if the port is closed.



**By night** the steamer will carry:—

- (a) Three *red* vertical lights if the port is closed.
- (b) Three *white* vertical lights if the port is open.



The above lights will be carried in addition to the ordinary navigation lights, and will show an unbroken light around the horizon.

(8) Masters are warned that, when approaching a British port where the Examination Service is in force, they must have the distinguishing signal of their vessel ready to hoist immediately the Examination Steamer makes the signal.

(9) Masters are warned that, before attempting to enter any of these ports when the Examination Service is in force, they must in their own interests strictly obey all instructions given to them by the Examination Steamer.

Whilst at anchor in the Examination Anchorage, Masters are warned that they must not lower any boats, communicate with the shore, work cables, move the ship, or allow anyone to leave the ship, without permission from the Examination Steamer (except to avoid accident).

(10) In case of fog, Masters are enjoined to use the utmost care, and the port should be approached with caution.

(11) \_\_\_\_\_

The order prohibiting merchant vessels from making use of private signals when approaching ports is no longer in force.

(12) The pilots attached to the ports will be acquainted with the regulations to be followed.

### PART III.

#### PORTS OR LOCALITIES REFERRED TO.

##### *United Kingdom.*

Alderney.	Guernsey.	Portsmouth.
Barrow.	Hartlepool.	Queenstown.
Barry.	Harwich.	River Humber.
Belfast.	Inverness firth.	" Mersey.
Berehaven.	Jersey.	" Tay.
Blyth.	Lerwick.	" Tees.
Clyde.	Lough Swilly.	" Thames.
Cromarty.	Millford Haven.	" Tyne.
Dover.	Newhaven.	Scapa Flow.
Falmouth.	Plymouth.	Sheerness.
Firth of Forth.	Portland.	Sunderland.

##### *Canada.*

Esquimalt.	Halifax.	Quebec.
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##### *Mediterranean.*

Gibraltar.	Malta.
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##### *Indian Ocean.*

Aden.	Colombo.	Mauritius.
Bombay.	Karachi.	Rangoon.
Calcutta.	Madras.	

##### *China Sea.*

Hong Kong.	Singapore
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##### *Africa.*

Durban.	Simons bay.
Sierra Leone.	Table bay.



<i>Australia.</i>		
Adelaide.	Melbourne.	Sydney.
Brisbane.	Newcastle.	Thursday island.
Fremantle.		
<i>Tasmania.</i>		
	Hobart.	
<i>New Zealand.</i>		
Auckland.		Port Lyttelton.
Otago.		Wellington.
<i>West Indies.</i>		
Bermuda.		Port Royal, Jamaica.

#### PART IV.

##### SWEEPING OPERATIONS.

Notice is hereby given that, under the Defence of the Realm (Consolidation) Regulations, 1914, the following Regulations have been made by the Lords Commissioners of the Admiralty, and are now in force.

H. M. Vessels are constantly engaged, both singly and in pairs, in sweeping operations off the coasts of the United Kingdom, and whilst so engaged they are hampered to a very considerable extent in their manœuvring powers.

With a view to indicating the nature of the work on which they are engaged, these vessels will show the signals hereinafter mentioned, and for the public safety all other vessels, whether steamers or sailing craft, must keep out of the way of vessels flying these signals and not approach them inside the distances mentioned herein, specially remembering that it is dangerous to pass inside these distances or between the vessels of a pair, as the vessels may have mines trailing in their sweeps, and also on account of the danger caused to traffic if mine-sweepers have to slip their sweeps to get out of the way of vessels.

##### 1. SIGNALS THAT WILL BE SHOWN BY DAY.

###### (a) By vessels working singly :—

A black ball at the foremast head, and a similar ball at each yard-arm or where they can best be seen.

Vessels showing this signal are not to be approached nearer than 300 yards.

###### (b) By vessels working in pairs :—

A black ball at the foremast head, and a similar ball at the yard-arm or where it can best be seen, on that side on which it is dangerous to pass.

Vessels are not to pass within a distance of 400 yards astern of a single pair of sweepers, or when more than one pair are working in company within a distance of 400 yards astern of rear pair. They are on no account to attempt to pass between pairs working in company.

##### 2. SIGNALS THAT WILL BE SHOWN BY NIGHT.

As for day, except that all round green lights will be used in place of the black balls.

#### CAUTION.

Part IV of this Admiralty Notice to Mariners is issued under the provisions of the Defence of the Realm (Consolidation) Regulations, 1914.



and failure to comply strictly with the directions contained in it will constitute an offence against those Regulations.

Any person found guilty of such an offence is liable to severe penalties, both of imprisonment and fine.

Any person aiding or abetting the commission of such an offence is himself guilty of an offence against the Regulations.

Attention is also drawn to the fact that any infringement of the directions contained in Part IV of this Admiralty Notice to Mariners is liable to result in the detention of the ship or vessel.

*Note.*

This Notice is a revision of Notice No. 1 of 1919 (This office No. 53 of 1919).

*Authority.*—The Lords Commissioners of the Admiralty. (H. 6624/19.)

*The 20th October 1919.*

**AFRICA—EAST COAST.**

***Kisimayu Bay—Alterations to Beacons. Buoy established.***

*No. 303 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 64M. of 1919), are republished:—

(a) *Position.*—Of Kasimayu village.

Lat.  $0^{\circ} 22' S.$ , long.  $42^{\circ} 33' E.$

*Details.*—Two wooden black and white horizontally striped beacons, on beach near pier, about half a mile east-south-eastward of Kisimayu fort, are being replaced by stone beacons, 20 feet from base to top, to be painted black with one white band in the middle, 6 feet broad.

(b) *Position.*—At a distance of about 6 cables  $219^{\circ} (S. 45^{\circ} W. Mag.)$  from a white pillar on Fawatu island in 5 fathoms of water.

*Description.*—A red conical buoy with spherical cage.

*Note.*—The flag staff on the fort is mounted on an open work wooden tower which is painted in black and white vertical stripes, i.e., black sides with white centre.

*Variation.*— $6^{\circ} W.$

*Charts affected.*—No. 860, Kisimayu bay.

„ 670, Juba or Dundas islands.

„ 848, Malindi to Juba.

*Publication.*—East Coast of Africa Pilot, Part III, 1915, pages 511, 512.

*Authority.*—Commander-in-Chief, East Indies, dated 29th August 1919.

**AFRICA—EAST COAST.**

***Lamu Harbour—Light established.***

*No. 304 (third publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 65 M. of 1919), are republished:—

*Position.*—On Shella Hill, near Signal Staff.

Lat.  $2^{\circ} 17' 49'' S.$ , long.  $40^{\circ} 54' 56'' E.$

*Date of exhibition.*—5th July 1918.

*Abridged description.*—Lt. F. Wh. 170 ft. vis. 11 m.

*Character.*—A fixed white light.



*Elevation.*—170 ft. above H. W. O. S.

*Visibility.*—11 miles in clear weather, from  $52^{\circ}$  (N.  $56^{\circ}$  E. Mag.) through south-west to  $232^{\circ}$  (S.  $56^{\circ}$  W. Mag.)

*Power.*—6th order dioptric port light (oil).

*Structure.*—Rectangular building painted dark red, 77 ft. 6 ins.

*Note.*—This light has been reported visible 18 miles in clear weather.

*Variation.*— $4^{\circ}$  W.

*Charts affected.*—No. 1747, Lamu harbour.

668, Lamu, Manda and Patta bays.

848, Malindi to Juba.

597, Delagoa bay to Cape Guardafui.

*Publications.*—List of lights, Part VI, 1919, page 17.

East Coast of Africa Pilot, Part III, 1915, page 491.

*Authority.*—Commander-in-Chief, East Indies, dated 29th August 1919.

#### AFRICA—EAST COAST.

*Lindi River—Tidal information, Prohibited anchorage, Berths and Beacons established.*

No. 305 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 66M. of 1919), are republished :—

*Position.*—Lindi observation pillar.

Lat.  $9^{\circ} 59' 26''$  S., long.  $39^{\circ} 43' 38''$  E.

(i) Tides.—Soundings taken by *Severn* during the Spring Tides of 4th and 5th July 1917 show that if Lindi "A" red outer fairway pillar buoy is passed close on the starboard hand and the beacons brought into transit but not opened, so that the lower beacon is to the southward of the upper beacon, least water (L. W. O. S.) may be expected as 17 feet.

The following data have been derived from tidal observations at Lindi during October and November 1917 :—

H. W. F. & C.	... III h. 45 m. M.T.R.
Mean Spring Range	... 12 feet.
Mean Neap Range	... $4\frac{1}{2}$ feet.
Datum on tide pole	... 8 inches.
Highest tide	... 14 ft. 2 inches on tide pole.
Lowest tide	... Zero.

Spring Tides.—The highest Spring Tide occurs about  $1\frac{1}{2}$  days after full and new moon. The tides appear to be regular and take 3 hours to rise and 6 hours to fall, obtaining their height and commencing to fall almost immediately. The A.M. tide is usually the highest.

Neap Tides.—At Neaps the tides are irregular and a range of only 2 feet 8 inches has been observed : On this occasion the tide never fell below 5 feet 9 inches on the tide pole and only rose to 8 feet 5 inches, this height being reached about 2 hours before the time for H. W. The tides seldom remain stationary at H. W. (with the above exception) but commence to fall almost immediately, but at L. W. they often remain stationary for 2 hours before commencing to rise.

The following depths may be expected on the Bar at High and Low water :—

Springs.	Neaps.
H. W. 27 ft.	... $23\frac{1}{2}$ ft.
L. W. 15 ft.	... 19 ft.



**(2) Prohibited Anchorage :—**

Details.—Ships are prohibited to anchor near a line, drawn to the direction of  $11^{\circ}$  (*N.  $17^{\circ}$  E. Mag.*) distant 20 cables from the rear beacon on Lindi, thence  $85^{\circ}$  (*S.  $89^{\circ}$  E. Mag.*) to seaward.

**(3) The Berths in Lindi are as follows :—**

Details.—Berths A, B, C, D, E and F are on the line Mbachiwonaki Beacon transit the shoulder on the Eastern slope of Mlima Atu, with :—

“A” Berth Mlima Ngeka bearing  $261^{\circ}$  (*S.  $87^{\circ}$  W. Mag.*), distant 2 miles  $6\frac{1}{2}$  cables.

“B” Berth Mlima Ngeka bearing  $266^{\circ}$  (*N.  $88^{\circ}$  W. Mag.*), distant 2 miles  $5\frac{1}{2}$  cables.

“C” Berth Mlima Ngeka bearing  $270^{\circ}$  (*N.  $84^{\circ}$  W. Mag.*), distant 2 miles  $4\frac{1}{2}$  cables.

“D” Berth Mlima Ngeka bearing  $274^{\circ}$  (*N.  $80^{\circ}$  W. Mag.*), distant 2 miles  $3\frac{1}{2}$  cables.

“E” Berth Mlima Ngeka bearing  $279^{\circ}$  (*N.  $75^{\circ}$  W. Mag.*), distant 2 miles  $3\frac{1}{2}$  cables.

“F” Berth Mlima Ngeka bearing  $283^{\circ}$  (*N.  $71^{\circ}$  W. Mag.*), distant 2 miles  $3\frac{1}{2}$  cables.

Berths “G” and “H” are as follows :—

“G” Fort F. S. in line with red conical buoy bearing  $324^{\circ}$  (*N.  $30^{\circ}$  W. Mag.*) distant  $5\frac{1}{2}$  cables and Mbachiwonaki Beacon bearing  $230^{\circ}$  (*S.  $56^{\circ}$  W. Mag.*), distant 3 cables.

“H” Three berths for ships not exceeding 300 feet, Southward of “G” berth.

Remarks.—Small marks have been erected on the foreshore; they consist of a white staff surmounted by a diamond with the letter of the berth in black, viz.:—“A” Mark in line with Mlima Ngeka goes through “A” berth, etc.

**(4) Beacons established.**

(a) *Position.*—On the high land, at a distance of about  $6\frac{1}{2}$  cables  $241^{\circ}$  (*S.  $67^{\circ}$  W. Mag.*) from the rear leading beacon on Lindi.

Details.—A white lattice work beacon surmounted by a barrel has been erected in the above position.

Remarks.—This beacon is visible on all bearings from seaward over the Palm trees and when in line with the present leading beacons leads over Lindi Bar.

(b) *Position.*—Near Dedogri Village, at a distance of about  $4\frac{1}{2}$  cables  $314^{\circ}$  (*N.  $40^{\circ}$  W. Mag.*) from observation spot on Mgan Mwanja.

Details.—A triangular beacon, 20 feet high, painted B. W. H. S., has been erected in the above position.

Variation.— $6^{\circ}$  W.

Charts affected.—No. 681, Lindi River.

„ 1808, Cape Delgado to Kilwa.

Publication.—East Coast of Africa Pilot, Part III, 1915, pages 327, 330.

Authority.—Commander-in-Chief, East Indies, dated 29th August 1919.

**AFRICA—EAST COAST.****Mafia Channel—Information regarding buoys.**

No. 306 (*third publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 67M. of 1919), are republished :—

(a) Shungumbili Pass Buoy.

Details.—Shungumbili pass buoy (situated N. E.  $3\frac{1}{2}$  miles from Shungumbili Island) has broken adrift.

Remarks.—This buoy is not shown on Admiralty Charts.



(b) Kwale Island Buoy.

*Position*.—Of Kwale Island.

Lat.  $7^{\circ} 25' S.$ , long.  $39^{\circ} 24' E.$

*Details*.—The spar buoy east of Kwale island has disappeared.

(c) Ras Kisimani, buoy southward of.

*Position*.—At a distance of about 2 miles 4 cables,  $174\frac{1}{2}^{\circ}$  (South Mag.) from Ras Kisimani.

*Details*.—The black conical buoy southward of Ras Kisimani has disappeared.

(d) Niororo Island Buoy.

*Position*.—At a distance of about  $1\frac{1}{2}$  miles,  $322\frac{1}{2}^{\circ}$  (N,  $32^{\circ} W.$  Mag.) from Niororo island.

*Details*.—This buoy has drifted 2 miles to the North Eastward from its position.

*Variation*.— $5\frac{1}{2}^{\circ} W.$

*Charts affected*.—No. 1032, Kilwa point and North Mafia channel.

" 662, Kilwa point to Zanzibar channel.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 358, 362, 363, 366.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

AFRICA—EAST COAST.

*Msimbati channel—Beacons established; Directions for entering Harbour.*

No. 307 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 68M. of 1919), are republished:—

(a) *Position of Msimbati observation spot*.—

Lat.  $10^{\circ} 19' 22'' S.$ , long.  $40^{\circ} 23' 34'' E.$

*Details*.—A white triangular beacon has been erected in the position of the observation spot on Ras Msimbati.

(b) *Position*.—At a distance of about 11 cables  $32^{\circ}$  (N.  $38^{\circ} E.$  Mag.) from position (a).

*Details*.—A white triangular beacon has been erected in the above position.

*Remarks*.—These beacons cannot be mistaken for each other, as Observation Spot beacon stands out conspicuously from Ras Msimbati.

*Note*.—The high water line of Msimbati and Islands of Mana Hawanja and Mongo appear to be incorrectly charted.

(2) *Directions for Entering Harbour*.—

When entering the harbour, a line of bearing of Ras Msimbati Beacon  $198^{\circ}$  (S.  $24^{\circ} W.$  Mag.), although the correct one to enter and leave by, seems to lead too close to shoals off Ras Ruvura or at least to discoloured water.

It is thought therefore that Ras Msimbati may have grown out and it would seem advisable for ships entering or leaving this harbour to do so at L. W., or when the Sun is high in altitude. The shoals then are easily visible and ships can keep to the deep blue water.

*Variation*.— $6^{\circ} W.$

*Charts affected*.—No. 690, Cape Delgado to Mikindani bay.

" 1808, Cape Delgado to Kilwa.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 321, 322.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.



## AFRICA—EAST COAST.

*Tanga Approaches—Buoy relaid, Buoy disappeared.*

No. 308 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 69M. of 1919), are republished :—

- (a) *Position*.—At a distance of about 2 miles and  $2\frac{1}{2}$  cables  $95^{\circ}$  (S.  $80^{\circ}\frac{1}{2}$  E. *Mag.*) from Signal Station F. S. on Ras Kasone.  
Lat.  $5^{\circ} 3' 47''$  S., long.  $39^{\circ} 9' 53''$  E.

*Details*.—A black and white vertical striped buoy, with ball top mark, has been relaid to mark the north side of Dixon Bank.

- (b) *Position*.—At a distance of about 2 cables, north eastward of northern end of Niule Reef.

Lat.  $5^{\circ} 34'$  S., long.  $39^{\circ} 12\frac{1}{2}'$  E.

*Details*.—A black Conical Reef buoy at the entrance to Tanga Ship Channel has disappeared.

*Variation*.— $4\frac{1}{2}^{\circ}$  W.

*Charts affected*.—No. 663, Mansa and Tanga bays.

„ 1390, Chale point to Pangani.

„ 664, Zanzibar to Malindi.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, pages 449, 451.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

## AFRICA—EAST COAST.

*Tunghi Bay—Buoys disappeared.*

No. 309 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 70M. of 1919), are republished :—

- (a) *Position*.—Lat.  $10^{\circ} 46' 10''$  S., long.  $40^{\circ} 34' 50''$  E.

- (b) *Position*.—Lat.  $10^{\circ} 46' 00''$  S., long.  $40^{\circ} 33' 10''$  E.

*Details*.—The two black buoys situated in the above positions have disappeared.

*Chart affected*.—No. 658, Ras Pekawi to Cape Delgado.

*Publication*.—East Coast of Africa Pilot, Part III, 1915, page 315.

*Authority*.—Commander-in-Chief, East Indies, dated 29th August 1919.

## BAY OF BENGAL—ORISSA COAST.

*Dhamra river—Extension of Kanika Sand disappeared.*

No. 310 (third publication).—

*Former Notice*.—No. 241 of 1919.

*Subject*.—The extension of the Kanika Sand, Dhamra river, off Shortt's island, has completely disappeared and the channel is now clear.

*Charts affected*.—No. 829, Cocanada to Bassein river.

„ 754, Dhamra river.

*Publication*.—Bay of Bengal Pilot, 1910, page 278. Revised Supplement (2) 1917.

*Authority*.—Port Officer, Chandballi, letter No. 673P., dated the 16th October 1919.

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 19, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 11th November 1919.

### MALACCA STRAIT.

*Penang Harbour—Alterations in Light-Beacons, Beacons and Buoys.*

No. 315 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1609 of 1919), are republished:—

(a) Alteration in position of No. 4 light-beacon:

*New position.*—At a distance of about one cable northward from position shown on charts.

Lat.  $5^{\circ} 21' 26''$  N., long.  $100^{\circ} 21' 07''$  E.

*Description.*—A light-beacon painted white, exhibiting a *fixed green light*.

(b) Light-beacon established:

*Position.*—Lat.  $5^{\circ} 19' 50''$  N., long.  $100^{\circ} 21' 05''$  E.

*Description.*—A light-beacon painted white, exhibiting a *fixed white light*.

(c) Beacon established:

*Position*—Lat.  $5^{\circ} 24' 20''$  N., long.  $100^{\circ} 20' 50''$  E.

*Description.*—A red beacon.

(d) Beacon destroyed:

*Position.*—Lat.  $5^{\circ} 23' 20''$  N., long.  $100^{\circ} 21' 28''$  E.

*Description.*—A white beacon.

*Remarks.*—This beacon is to be expunged from the charts.



## (e) Buoys withdrawn:

*Details.*—The following buoys have been withdrawn and are to be expunged from the charts:—

- (i) The two red buoys with topmarks, at distances of about 3 cables and  $3\frac{1}{4}$  cables northward respectively from Fort Cornwallis.
- (ii) The wreck-buoy in the vicinity of the red beacon described in (c) above.
- (iii) No. 1 red conical buoy, at a distance of about 2 cables southward from the beacon described in (c) above.
- (iv) No. 6 white conical buoy, at a distance of about  $3\frac{1}{4}$  cables south-eastward from No. 5 light-beacon.
- (v) No. 7 white conical buoy, at a distance of about 14 cables southward from No. 5 light-beacon.

*Charts affected.*—No. 3732, Penang harbour.

„ 1366, Penang harbour and approaches.

„ 793, Butang group to Pulo Berhala.

*Publications.*—List of Lights, Part VI, 1919, No. 743 (Remarks).  
China Sea Pilot, Vol. I, 1916, page 177.

*Authority.*—Harbour Master, Penang. (H. 6276/19.)

## JAPAN, INLAND SEA—SUWO NADA.

*Motoyama Bay—Wrecks southward and south-eastward of.*

*No. 316 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1620 of 1919), are republished:—

## 1. Wreck southward of:

*Position (approximate).*—Lat.  $33^{\circ} 51' 03''$  N., long.  $131^{\circ} 14' 38''$  E.

*Description.*—Sunken wreck of SS. *Daini Kaishin Maru*.

*Remarks.*—The wreck is marked by a spar buoy.

## 2. Wreck south-eastward of:

*Position.*—Lat.  $33^{\circ} 48' 00''$  N., long.  $131^{\circ} 22' 17''$  E.

*Description.*—Sunken wreck of two-masted schooner *Kinei Maru*.

*Remarks.*—The wreck is marked by a post and flag.

*Note.*—The positions given refer to chart No. 3225.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

„ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notices Nos. 222 and 239 of 1919. (H. 5856 & 6378/19.)



## BORNEO, WEST COAST.

*Greig Shoals—Shoal reported north-westward of.*

No. 317 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1622 of 1919), are republished:—

*Position.*—At a distance of about 28 miles north-westward of Greig shoals.

Lat.  $0^{\circ} 35' 30''$  S., long.  $108^{\circ} 12' 00''$  E.

*Depth.*— $3\frac{1}{2}$  fathoms.

*Note.*—The shoal is to be marked on charts with the note "*Repd.* (1919)."

*Charts affected.*—No. 941a, Eastern Archipelago—sheet I.  
 „ 2660a, China sea, southern portion—western sheet.  
 „ 1263, China sea.  
 „ 748b, Indian ocean—northern portion.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 216.

*Authority.*—Tokyo Notice No. 179 of 1919. (H. 5800/19.)

## JAPAN—INLAND SEA.

*Ayashi No Seto, Western Entrance—Non-existence of Wreck.*

No. 318 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1645 of 1919), are republished:—

*Former Notice.*—No. 645 of 1917. (This Office No. 220 of 1917.)

*Position.*—At a distance of about  $3\frac{1}{2}$  miles westward from Ye saki light-house.

Lat  $34^{\circ} 35\frac{1}{2}'$  N., long.  $134^{\circ} 55\frac{1}{2}'$  E.

*Details.*—The wreck shown on the charts in the above position no longer exists and is to be expunged.

*Charts affected.*—No. 3566, Izumi nada and Harima nada.  
 „ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 263 of 1919. H. (6502/19.)

## CHINA, EAST COAST.

*Chifu (Yentai) Approach—Rock reported.*

No. 319 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1646 of 1919), are republished:—

*Position.*—At a distance of about 16 miles northward of Chifu light-house.

Lat.  $37^{\circ} 48' 00''$  N., long.  $121^{\circ} 30' 00''$  E., on chart No. 1255.

*Depth.*— $4\frac{1}{2}$  fathoms.

*Remarks.*—The rock is about 70 yards in extent.

*Charts affected.*—No. 1255, Kyan chau bay to Lai chau bay.  
 „ 1256, Gulf of Pe chili and Liao tung.  
 „ 1262, Hongkong to Gulf of Liao tung.  
 „ 2459, North-west Pacific ocean, etc.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 465.

*Authority.*—Tokyo Notice No. 170 of 1919. (H. 5103/19)



## CHINA, EAST COAST.

*Approaches to Kyau Chau Bay—Prohibited areas abolished.*

*No. 320 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1648 of 1919), are republished:—

*Position.*—Tai-kung tau lighthouse, lat.  $35^{\circ} 57\frac{1}{2}'$  N., long.  $120^{\circ} 29\frac{1}{2}'$  E.

*Remarks.*—The following prohibited areas have been abolished and are to be erased from the charts:—

- (1) The rectangular area with its south-eastern corner at the summit of Tai-kung tau, and extending north-westward to Swallow bank.
- (2) The area within the circle of which the centre is Chu cha tau and the radius  $1\frac{1}{2}$  miles.

*Charts affected.*—No. 857, Kyau chau bay.

„ 1255, Kyau chau bay to Lai chau bay.

„ 3480, Shantung promontory to Nagasaki.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 412; Revised Supplement (II), 1918.

*Authority.*—Tokyo Notice No. 234 of 1919. (H. 6374/19.)

## JAPAN—SOUTH COAST.

*Mororan Ko—Light-buoy established.*

*No. 321 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1652 of 1919), are republished:—

*Position.*—At a distance of  $6\frac{1}{2}$  cables,  $315^{\circ}$  (N.  $38^{\circ}$  W. Mag.), from Daikoku Ja lighthouse.

Daikoku Ja lighthouse, lat.  $42^{\circ} 20\frac{1}{2}'$  N., long.  $140^{\circ} 55\frac{1}{2}'$  E.

*Description.*—A black cylindrical light-buoy, exhibiting a *flashing red light every three seconds.*

*Variation.*— $7^{\circ}$  W.

*Charts affected.*—No. 3507, Mororan ko.

„ 3591, Iburi wan or Uchiurā wan.

*Publication.*—Japan Pilot, 1914, page 718.

*Authority.*—Tokyo Notice No. 743 of 1919. (H. 6217/19.)

## JAPAN—NAIKAI OR INLAND SEA.

*Non-existence of Wrecks.*

*No. 322 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1653 of 1919), are republished:—

*Former Notices.*—Nos. 1228 of 1917 and 496 of 1918. (This office Nos. 35 and 191 of 1918.)

Position.

Position.

Lat. N.	Long. E.	Lat. N.	Long. E.
(1) $33^{\circ} 55' 18''$	$131^{\circ} 31' 08''$	(9) $33^{\circ} 48' 28''$	$131^{\circ} 24' 45''$
(2) $34^{\circ} 18' 12''$	$132^{\circ} 59' 45''$	(10) $33^{\circ} 51' 34''$	$132^{\circ} 18' 30''$
(3) $33^{\circ} 51' 47''$	$131^{\circ} 18' 37''$	(11) $33^{\circ} 53' 45''$	$132^{\circ} 04' 00''$
(4) $33^{\circ} 50' 40''$	$131^{\circ} 16' 45''$	(12) $33^{\circ} 51' 42''$	$132^{\circ} 20' 36''$
(5) $33^{\circ} 53' 19''$	$131^{\circ} 22' 15''$	(13) $33^{\circ} 50' 20''$	$132^{\circ} 20' 15''$
(6) $33^{\circ} 52' 20''$	$131^{\circ} 12' 23''$	(14) $34^{\circ} 19' 30''$	$133^{\circ} 24' 00''$
(7) $33^{\circ} 52' 45''$	$131^{\circ} 13' 18''$	(15) $33^{\circ} 47' 40''$	$131^{\circ} 38' 45''$
(8) $33^{\circ} 56' 21''$	$131^{\circ} 03' 45''$		



*Remarks.*—The above-mentioned wrecks are to be expunged from the charts.

*Charts affected.*—No. 3153, Maruyama zaki to Ominase.  
 „ 3325, Channels between Neko seto and Mekari seto.  
 „ 3225, Shimonoseki kaikyo to Maruyama zaki.  
 „ 3154, Ominase to Gogo shima.  
 „ 2875, Naikai or Inland sea.  
 „ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notice No. 209 of 1919. (H. 5847/19.)

#### JAPAN—NAIKAI OR INLAND SEA.

*Izumi Nada and Suō Nada—Non-existence of Wrecks.*

No. 323 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1654 of 1919), are republished:—

*Former Notices.*—Nos. 287 and 808 of 1918; No. 434 of 1919. (*This office Nos. 135 and 267 of 1918, No. 111 of 1919.*)

The following wrecks have been either raised, destroyed or have disappeared:—

1. *Position.*—At a distance of about  $2\frac{7}{10}$  miles south-westward from Wada misaki light.  
 Lat.  $34^{\circ} 36' 28''$  N., long.  $135^{\circ} 09' 55''$  E., on chart No. 16.
2. *Position.*—At a distance of about  $1\frac{1}{10}$  miles southward from the above light.  
 Lat.  $34^{\circ} 37' 33''$  N., long.  $135^{\circ} 10' 44''$  E. on chart No. 16.
3. *Position.*—At a distance of about  $1\frac{1}{10}$  miles north-eastward from the above light.  
 Lat.  $34^{\circ} 39' 33''$  N., long.  $135^{\circ} 12' 12''$  E., on chart No. 2265.
4. *Position.*—At a distance of about 1 mile eastward from Saba shima.  
 Lat.  $33^{\circ} 57' 44''$  N., long.  $131^{\circ} 31' 46''$  E., on chart No. 3153.

*Remarks.*—The above-mentioned wrecks are to be expunged from the charts.

*Charts affected.*—No. 2265, Kobe and Hyogo bays.  
 „ 3153, Maruyama zaki to Ominase.  
 „ 16, Kobe and Osaka.  
 „ 3566, Izumi nada and Harima nada.  
 „ 2875, Naikai (Seto uchi) or Inland sea.  
 „ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notice No. 219 of 1919. (H. 5854/19.)

#### JAPAN, SOUTH COAST.

*Kitsuki Wan and Northern Approach—Existence of Rocks.*

No. 324 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1659 of 1919), are republished:—

(a) *Position.*—At a distance of  $1\frac{3}{10}$  miles,  $184^{\circ}$  (S.  $8^{\circ}$  W. Mag.), from Moriye light-beacon.

Lat.  $33^{\circ} 23\frac{1}{2}'$  N., long.  $131^{\circ} 39\frac{1}{2}'$  E.

*Depth.*—3 fathoms.

(b) *Position.*—At a distance of about  $2\frac{1}{10}$  miles,  $185^{\circ}$  (S.  $9^{\circ}$  W. Mag.), from Aki saki light.

Lat.  $33^{\circ} 25\frac{1}{2}'$  N., long.  $131^{\circ} 43\frac{1}{2}'$  E.

*Depth.*—4 $\frac{1}{2}$  fathoms.



*Remarks.*—The above-mentioned rocks are known by the names "Kamisono Se" and "Natano Se" respectively.

*Variation.*— $4^{\circ}$  W.

*Charts affected.*—No. 651, Bungo channel.

" 2875, Naikai or Inland sea.

" 1648, Osumi kaikyo to Oshima.

" 358, Western coasts of Kiusiu and Honshū.

*Publication.*—Japan Pilot, 1914, pages 394 and 395.

*Authority.*—Tokyo Notice No. 182 of 1919. (*H.* 5801/19.)

#### KOREA, WEST COAST.

##### *Popusompu Approach—Shoal reported.*

*No. 325 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1667 of 1919), are republished:—

*Position (approximate).*—Lat.  $35^{\circ} 25' 00''$  N., long.  $126^{\circ} 21' 00''$  E.

*Depth.*—Less than 6 feet, bottom shingle.

*Remarks.*—The shoal is about three-quarters of a cable in extent.

*Note.*—The shoal is to be marked on the charts with the note "*Repd. (1919) (Posn. approx.)*."

*Charts affected.*—No. 913, Mackau group to Clifford islands.

" 3480, Shantung promontory to Nagasaki.

" 2347, Honshū, Kiusiu and Shikoku, etc.

" 1262, Hongkong to Gulf of Liau-tung.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 631.

*Authority.*—Tokyo Notice No. 254 of 1919. (*H.* 6494/19.)

#### JAPAN, INLAND SEA—GULF OF OSAKA.

##### *Ayashi No Seto—Correction to Chart No. 3566 with regard to Wreck.*

*No. 326 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1681 of 1919), are republished:—

*Former Notice.*—No. 1255 of 1919. (*This office No. 264 of 1919.*)

*Position.*—At a distance of  $3\frac{1}{4}$  cables,  $300^{\circ}$  (*N.  $55^{\circ}$  W. Mag.*), from Ye Saki lighthouse.

Lat.  $34^{\circ} 36\frac{1}{4}'$  N., long.  $134^{\circ} 59'$  E.

*Description.*—Sunken wreck of SS. *Daini Tō sei Maru*.

*Remarks.*—The foregoing wreck is not shown on some copies of chart No. 3566 and is to be inserted.

*Variation.*— $5^{\circ}$  W.

*Chart affected.*—No. 3566, Izumi nada and Harima nada.

*Authority.*—Hydrographic Department. (*H.* 6858/19.)



NEW ZEALAND, NORTH COAST—AUCKLAND HARBOUR  
APPROACH.

*Rough Rock buoy withdrawn and Beacon erected.*

No. 327 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1694 of 1919), are republished:—

(a) Buoy withdrawn:

*Position.*—At a distance of about 6½ cables eastward from Takapuna head flagstaff.

Lat.  $36^{\circ} 49' S.$ , long.  $174^{\circ} 49\frac{1}{2}' E.$

*Description.*—A spherical buoy painted with black and white horizontal stripes.

*Remarks.*—This buoy is to be expunged from the charts.

(b) Beacon erected:

*Position.*—On the pinnacle of Rough rock

Lat.  $36^{\circ} 49' 01'' S.$ , long.  $174^{\circ} 49' 17'' E.$ , on chart No. 1970.

*Description.*—An iron tripod surmounted by a barrel-shaped topmark, 18 feet in height.

*Charts affected.*—No. 1970, Auckland harbour and approaches.

„ 1896, Entrances to Auckland harbour.

„ 2543, Maunganui bluff to Manukau harbour.

*Publication.*—New Zealand Pilot, 1908, page 36; Supplement No. (3), 1917.

*Authority.*—Marine Department, Wellington, N.Z., Notice No. 29 of 1919. (H. 6063/19.)

RED SEA—ARABIAN COAST.

*Loheiya Approaches—Buoy withdrawn; Buoys established.*

No. 328 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1708 of 1919), are republished:—

(1) Buoy withdrawn:

*Position.*—At a distance of about 4½ miles northward from hut on northern end of Kamaran island.

Lat.  $15^{\circ} 32\frac{1}{2}' N.$ , long.  $42^{\circ} 36\frac{1}{2}' E.$

*Description.*—A white conical buoy marking southern edge of Shab Bodinjan shoal.

*Note.*—The abovementioned buoy is to be erased from the charts.

(2) Buoys established:

(a) *Position.*—At a distance of about 4½ miles northward from hut on northern end of Kamaran island.

Lat.  $15^{\circ} 32' 37'' N.$ , long.  $42^{\circ} 36' 30'' E.$

*Description.*—A black can buoy surmounted by a ball topmark.

*Remarks.*—This buoy marks the western edge of Shab Bodinjan shoal.

(b) *Position.*—At a distance of about 4½ miles south-eastward from summit of Entufash island.

Lat.  $15^{\circ} 38' 00'' N.$ , long.  $42^{\circ} 24' 30'' E.$

*Description.*—A black can buoy surmounted by a drum topmark.



*Remarks.*—This buoy marks the northern limit of the shoal water lying midway between Okban island and eastern extreme of Entufash island.

*Charts affected.*—No. 143, Jebel Teir to Perim island.

„ 8d. Red Sea—sheet IV.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 360.

*Authority.*—H.M.S. *Merlin* Hydrographic Note No. 6 of 1919, (H. 5776/19.)

### • CHINA, SOUTH COAST.

*Hongkong Harbour—Alteration in position of Light-Buoys.*

*No. 329 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1721 of 1919), are republished:—

1. Northern light-buoy marking western end of Central fairway:

*New position.*—At a distance of about 350 yards westward from former position.

Lat.  $22^{\circ} 18' 02''$  N., long.  $114^{\circ} 07' 50''$  E.

*Description.*—A light buoy, painted red and white, exhibiting a *flashing white light every three seconds*.

2. Southern light-buoy marking western end of Central fairway:

*New position.*—At a distance of about 360 yards westward from former position.

Lat.  $22^{\circ} 17' 51''$  N., long.  $114^{\circ} 07' 50''$  E.

*Description.*—A light-buoy, painted red and white, exhibiting a *flashing white light every three seconds*.

*Charts affected.*—No. 3280, Hongkong waters—west.

„ 1466, Hongkong.

*Publication.*—China Sea Pilot, Vol. III, 1912, page 501; Supplement No. 4, 1919.

*Authority.*—Harbour Master, Hongkong. (H. 6416/19.)

### RED SEA—EASTERN SHORE.

*Kamaran Passage, Southern Approach—Buoy disappeared.*

*No. 330 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1724 of 1919), are republished:—

*Position.*—At a distance of about  $12\frac{1}{2}$  cables south-westward from the telegraph hut on Ras el Bayadh.

Lat.  $15^{\circ} 14\frac{1}{2}'$  N., long.  $42^{\circ} 34\frac{1}{2}'$  E.

*Description.*—A red conical buoy, surmounted by a staff and cylinder.

*Remarks.*—This buoy is to be expunged from the charts.

*Chart affected.*—No. 543, Kamaran passage and southern approach.

*Authority.*—H.M.S. *Topaze* Hyd. Note No. 1 of 1919. (H. 6821/19.)



## INDIA—WEST COAST.

*Buoys between Alibag and Bhatkal relaid.*

No. 331 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 73M. of 1919), are republished:—

Former Notices Nos. 39M. and 49M. of 1919. (*This office Nos. 171 and 200 of 1919.*)

Details.—The following buoys which were withdrawn during the south-west monsoon were relaid in their respective positions on the dates noted against them:—

Alibag Buoy	...	...	30th Sept. 1919.
Ambalgarh Reef Buoy	...	...	21st Sept. 1919.
Berbera	...	...	10th Oct. 1919.
Malvan Inner Harbour. Buoy (2 in number)	...	...	18th Sept. 1919.
Malvan Red Light Boat	...	...	7th Sept. 1919.
Malvan Fort Harbour Buoy	...	...	18th Sept. 1919.
Malvan Rock Buoy	...	...	12th Oct. 1919.
Malvan Johnston Castle Rock Buoy	...	...	18th Sept. 1919.
Malvan Rajkot Fort Buoy	...	...	18th Sept. 1919.
Chaldea Rock Buoy	...	...	10th Oct. 1919.
Vengurla South Rock Buoy	...	...	4th Oct. 1919.
Bhatkal Rock Buoy	...	...	27th Sept. 1919.
Madeshwar Dart Rock Buoy	...	...	26th Sept. 1919.

Authority.—Acting Commissioner of Customs, Salt and Excise, Camp *via* Bombay, 13th October 1919.

The 3rd November 1919.

## MALACCA STRAIT.

*Penang Harbour—Shoal reported.*

No. 312 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1581 of 1919), are republished:—

Position.—Lat. 5° 21' 47" N., long. 100° 21' 10" E.

Depth.—About 2 fathoms.

Note.—The shoal is to be marked "*Repd. (1919)*" on the charts.

Charts affected.—No. 3732, Penang harbour.

.. 1366, Penang harbour and approaches.

.. 793, Butang group to Pulo Berhala.

Publication.—China Sea Pilot, Vol. I, 1916, page 176.

Authority.—Board of Trade. (*H. 6350/19.*)

## CHINA SEA—FORMOSA STRAIT.

*Formosa Banks—Amended Depths on Shoals.*

No. 313 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1593 of 1919), are republished:—

Former Notice.—No. 364 of 1918. (*This Office No. 147 of 1918.*)

(a) Position.—Lat. 23° 01½' N., long. 118° 36' E.

Depth.—5½ fathoms, instead of 4½ fathoms shown on chart.



- (b) *Position*.—Lat.  $23^{\circ} 01' N.$ , long.  $118^{\circ} 30\frac{1}{2}' E.$   
*Depth*.— $4\frac{1}{2}$  fathoms, instead of  $3\frac{1}{2}$  fathoms shown on chart.
- (c) *Position*.—Lat.  $22^{\circ} 56' N.$ , long.  $118^{\circ} 35' E.$   
*Depth*.— $5\frac{1}{2}$  fathoms, instead of 4 fathoms shown on chart.
- (d) *Position*.—Lat.  $22^{\circ} 54\frac{1}{2}' N.$ , long.  $118^{\circ} 42\frac{1}{2}' E.$   
*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart.
- (e) *Position*.—Lat.  $22^{\circ} 45\frac{1}{2}' N.$ , long.  $118^{\circ} 13\frac{1}{2}' E.$   
*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart.

*Charts affected*.—No. 1968. Formosa island and strait.  
 „ 2661b, China sea, northern portion—eastern sheet.  
 „ 1262, Hongkong to Gulf of Liau-tung.  
 „ 1263, China sea.  
 „ 2683, Pacific ocean.  
 „ 2483, Atlantic and Indian oceans, &c.  
 „ 2937, Oceanic soundings, Indian and Western oceans.

*Publication*.—China Sea Pilot, Vol. V, 1912, pages 134, 135.

*Authority*.—Tokyo Notice No. 256 of 1919. (*H. 6496/19.*)

#### JAPAN, HONSHU—GULF OF TOKYO.

*Yokosuka Naval Port—Submerged Obstruction removed.*

No. 314 *second publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1595 of 1919), are republished:—

*Position*.—At a distance of 6 cables,  $55^{\circ}$  (*N.  $60^{\circ}$  E. Mag.*), from the northern extremity of Saru shima.

Lat.  $35^{\circ} 17\frac{1}{2}' N.$ , long.  $139^{\circ} 42\frac{1}{2}' E.$

*Details*.—The dangerous submerged obstructions which formerly existed in the vicinity of the position given above have been removed, and the note with reference to them on the charts is to be expunged, together with the small circular area which indicated the position.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 3548, Yokohama to Uraga.

„ 2657, Gulf of Tokyo or Yedo.

„ 953, Omai saki to Tsurugi saki.

*Publication*.—Japan Pilot, 1914, page 260; Revised Supplement (2), 1919.

*Authority*.—Tokyo Notice No. 211 of 1919. (*H. 5849/19.*)

The 27th October 1919.

#### BRITISH POSSESSIONS.

*Caution when approaching British Ports.*

No. 311 (*third publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1520 of 1919), are republished:—

#### PART I.

##### CLOSING OF PORTS.

*Former Notice*.—No. 1 of 1919 (This office No. 53 of 1919) hereby cancelled.

(1) My Lords Commissioners of the Admiralty, having taken into consideration the fact that it may be necessary to forbid all entrance to certain ports of the Empire, this is to give Notice that on approaching the shores of the United Kingdom, or any of the ports or localities of the British Empire, referred to in Part III of this Notice, a sharp look-out should be kept for the signals described in the following paragraph, and for the vessels



mentioned in paragraph (5), Part II, of this Notice, and the distinguishing and other signals made by them. In the event of such signals being displayed, the port or locality should be approached with great caution, as it may be apprehended that obstructions may exist.

(2) If entrance to a port is prohibited, three red vertical lights by night, or three red vertical balls by day, will be exhibited in some conspicuous position, in or near to its approach, which signals will also be shown by the vessels indicated in paragraph (5), Part II, of this Notice.

If these signals are displayed, vessels must approach the port with the greatest caution and implicitly obey all orders or signals given them by the Examination vessel or signal station.

(3) At all the ports or localities at home or abroad referred to in Part III of this Notice, search-lights are occasionally exhibited for exercise.

Instructions have been given to avoid directing moveable search-lights during practice on to vessels under way, but mariners are warned that great care should be taken to keep a sharp look-out for the signals indicated in paragraph (2) above, when search-lights are observed to be working.

## PART II.

### EXAMINATION SERVICE.

(4) In certain circumstances it is also necessary to take special measures to examine vessels desiring to enter the ports or localities at home or abroad, referred to in Part III of this Notice.

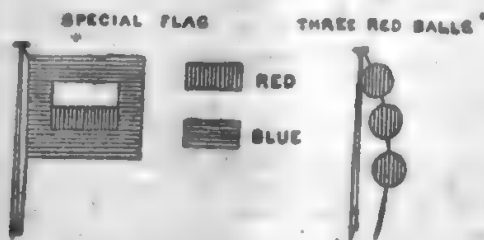
(5) In such case, vessels carrying the distinguishing flags or lights mentioned in paragraph (7) will be charged with the duty of examining ships which desire to enter the ports and of allotting positions in which they shall anchor. If Government vessels, or vessels belonging to the local port authority, are found patrolling in the offing, merchant vessels are advised to communicate with such vessels with a view to obtaining information as to the course on which they should approach the port. Such communication will not be necessary in cases where the pilot on board has already received this information from the local authorities.

(6) As the institution of the Examination Service at any port will never be publicly advertised, especial care should be taken in approaching the ports, by day or night, to keep a sharp look-out for any vessel carrying the flags or lights mentioned in paragraph (7), and to be ready to "bring to" at once when hailed by her or warned by the firing of a gun or sound rocket.

In entering by night any of the ports mentioned in Part III, serious delay and risk will be avoided if four efficient all round lamps, two red and two white, are kept available for use.

(7) **By day** the distinguishing flags of the Examination Steamer will be a special flag (white and red horizontal surrounded by a blue border) and a blue ensign.

Also, three red vertical balls if the port is closed.



**By night** the steamer will carry:—

- (a) Three red vertical lights if the port is closed.
- (b) Three white vertical lights if the port is open.



The above lights will be carried in addition to the ordinary navigation lights, and will show an unbroken light around the horizon.

(8) Masters are warned that, when approaching a British port where the Examination Service is in force, they must have the distinguishing signal of their vessel ready to hoist immediately the Examination Steamer makes the signal.

(9) Masters are warned that, before attempting to enter any of these ports when the Examination Service is in force, they must in their own interests strictly obey all instructions given to them by the Examination Steamer.

Whilst at anchor in the Examination Anchorage, Masters are warned that they must not lower any boats, communicate with the shore, work cables, move the ship, or allow anyone to leave the ship, without permission from the Examination Steamer (except to avoid accident).

(10) In case of fog, Masters are enjoined to use the utmost care, and the port should be approached with caution.

(11) \_\_\_\_\_

The order prohibiting merchant vessels from making use of private signals when approaching ports is no longer in force.

(12) The pilots attached to the ports will be acquainted with the regulations to be followed.

### PART III.

#### PORTS OR LOCALITIES REFERRED TO.

##### *United Kingdom.*

Alderney.	Guernsey.	Portsmouth.
Barrow.	Hartlepool.	Queenstown.
Barry.	Harwich.	River Humber.
Belfast.	Inverness firth.	" Mersey.
Berehaven.	Jersey.	" Tay.
Blyth.	Lerwick.	" Tees.
Clyde.	Lough Swilly.	" Thames.
Cromarty.	Milford Haven	" Tyne.
Dover.	Newhaven.	Scapa Flow
Falmouth.	Plymouth.	Sheerness.
Firth of Forth.	Portland.	Sunderland.

##### *Canada.*

Esquimalt.	Halifax.	Quebec.
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##### *Mediterranean.*

Gibraltar.	Malta.
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##### *Indian Ocean.*

Aden.	Colombo.	Mauritius.
Bombay.	Karachi.	Rangoon.
Calcutta.	Madras.	

##### *China Sea.*

Hong Kong.	Singapore.
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##### *Africa.*

Durban.	Simons bay.
Sierra Leone.	Table bay.



*Australia.*  
Adelaide.  
Brisbane.  
Fremantle.  
Melbourne.  
Newcastle.  
Sydney.  
Thursday island.

*Tasmania.*  
Hobart.

*New Zealand.*

Auckland.  
Otago.  
Port Lyttelton.  
Wellington.

*West Indies.*

Bermuda.  
Port Royal, Jamaica.

#### PART IV.

##### SWEEPING OPERATIONS.

Notice is hereby given that, under the Defence of the Realm (Consolidation) Regulations, 1914, the following Regulations have been made by the Lords Commissioners of the Admiralty, and are now in force.

H. M. Vessels are constantly engaged, both singly and in pairs, in sweeping operations off the coasts of the United Kingdom, and whilst so engaged they are hampered to a very considerable extent in their manœuvring powers.

With a view to indicating the nature of the work on which they are engaged, these vessels will show the signals hereinafter mentioned, and for the public safety all other vessels, whether steamers or sailing craft, must keep out of the way of vessels flying these signals and not approach them inside the distances mentioned herein, specially remembering that it is dangerous to pass inside these distances or between the vessels of a pair, as the vessels may have mines trailing in their sweeps, and also on account of the danger caused to traffic if mine-sweepers have to slip their sweeps to get out of the way of vessels.

##### 1. SIGNALS THAT WILL BE SHOWN BY DAY.

###### (a) By vessels working singly :—

A black ball at the foremast head, and a similar ball at each yard-arm or where they can best be seen.

Vessels showing this signal are not to be approached nearer than 300 yards.

###### (b) By vessels working in pairs :—

A black ball at the foremast head, and a similar ball at the yard-arm or where it can best be seen, on that side on which it is dangerous to pass.

Vessels are not to pass within a distance of 400 yards astern of a single pair of sweepers, or when more than one pair are working in company within a distance of 400 yards astern of rear pair. They are on no account to attempt to pass between pairs working in company.

##### 2. SIGNALS THAT WILL BE SHOWN BY NIGHT.

As for day, except that all round green lights will be used in place of the black balls.

##### CAUTION.

Part IV of this Admiralty Notice to Mariners is issued under the provisions of the Defence of the Realm (Consolidation) Regulations, 1914,



and failure to comply strictly with the directions contained in it will constitute an offence against those Regulations.

Any person found guilty of such an offence is liable to severe penalties, both of imprisonment and fine.

Any person aiding or abetting the commission of such an offence is himself guilty of an offence against the Regulations.

Attention is also drawn to the fact that any infringement of the directions contained in Part IV of this Admiralty Notice to Mariners is liable to result in the detention of the ship or vessel.

*Note.*

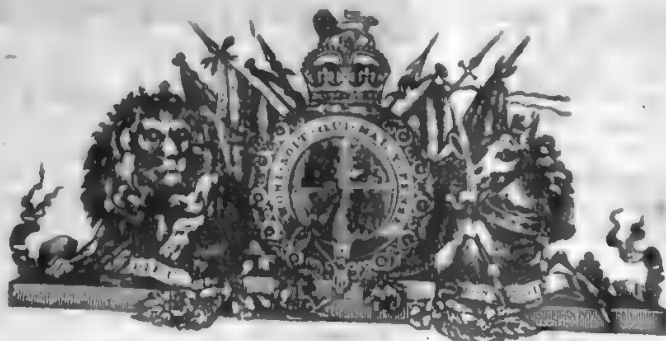
This Notice is a revision of Notice No. 1 of 1919 (This office No. 53 of 1919).

*Authority.*—The Lords Commissioners of the Admiralty. (H. 6624/19.)

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, NOVEMBER 26, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
*Secy. to the Govt. of Bengal.*

CALCUTTA, the 19th November 1919.

#### BAY OF BENGAL.

##### MADRAS COAST.

*Caution—Off Baruva—Report of a derelict Barque "Hyastan".*

*No. 332 (first publication)—*

*Subject.*—On the 17th November 1919 the Barque "Hyastan" waterlogged and dismasted, was abandoned 100 miles south-east of Baruva. The current was setting south and west.

*Caution.*—Mariners are hereby warned.

*Charts affected.*—No. 1424, Bimlipatam to Gopalpore.

„ 829, Cocanada to Bassein river.

*Authority.*—The Master of the Barque "Hyastan" telegram dated Baruva, the 19th November 1919.

The 11th November 1919.

#### MALACCA STRAIT.

*Penang Harbour—Alterations in Light-Beacons, Beacons and Buoys.*

*No. 315 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1609 of 1919), are republished:—

(ø) Alteration in position of No. 4 light-beacon:

*New position.*—At a distance of about one cable northward from position shown on charts.

Lat.  $5^{\circ} 21' 26''$  N., long.  $100^{\circ} 21' 07''$  E.

*Description.*—A light-beacon painted white, exhibiting a *fixed green light*.



## (b) Light-beacon established:

*Position*.—Lat.  $5^{\circ} 19' 50''$  N., long.  $100^{\circ} 21' 05''$  E.*Description*.—A light-beacon painted white, exhibiting a *fixed white light*.

## (c) Beacon established:

*Position*.—Lat.  $5^{\circ} 24' 20''$  N., long.  $100^{\circ} 20' 50''$  E.*Description*.—A red beacon.

## (d) Beacon destroyed:

*Position*.—Lat.  $5^{\circ} 23' 20''$  N., long.  $100^{\circ} 21' 28''$  E.*Description*.—A white beacon.*Remarks*.—This beacon is to be expunged from the charts.

## (e) Buoys withdrawn:

*Details*.—The following buoys have been withdrawn and are to be expunged from the charts:—

- (i) The two red-buoys with topmarks, at distances of about 3 cables and  $3\frac{1}{2}$  cables northward respectively from Fort Cornwallis.
- (ii) The wreck-buoy in the vicinity of the red beacon described in (c) above.
- (iii) No. 1 red conical buoy, at a distance of about 2 cables southward from the beacon described in (c) above.
- (iv) No. 6 white conical buoy, at a distance of about  $3\frac{1}{2}$  cables south-eastward from No. 5 light-beacon.
- (v) No. 7 white conical buoy, at a distance of about 14 cables southward from No. 5 light-beacon.

*Charts affected*.—No. 3732, Penang harbour.

,, 1366, Penang harbour and approaches.

,, 793, Butang group to Pulo Berhala.

*Publications*.—List of Lights, Part VI, 1919, No. 743 (Remarks).  
China Sea Pilot, Vol. I, 1916, page 177.*Authority*.—Harbour Master, Penang. (H. 6276/19.)

## JAPAN, INLAND SEA—SUWO NADA.

*Motoyama Bay*—Wrecks southward and south-eastward of.*No. 316 (second publication)*.—The following particulars, etc., relative to the above issued by the British Admiralty (No. 1620 of 1919), are republished:—

## 1. Wreck southward of:

*Position (approximate)*.—Lat.  $33^{\circ} 51' 03''$  N., long.  $131^{\circ} 14' 38''$  E.*Description*.—Sunken wreck of SS. *Daini Kaishin Maru*.*Remarks*.—The wreck is marked by a spar buoy.

## 2. Wreck south-eastward of:

*Position*.—Lat.  $33^{\circ} 48' 0''$  N., long.  $131^{\circ} 22' 17''$  E.*Description*.—Sunken wreck of two-masted schooner *Kinoi Maru*.*Remarks*.—The wreck is marked by a post and flag.*Note*.—The positions given refer to chart No. 3225.



*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

„ 358, Western coasts of Kiugiu and Honshū.

*Authority.*—Tokyo Notices Nos. 222 and 239 of 1919. (*H.* 5856 & 6378/19.)

### BORNEO, WEST COAST.

*Greig Shoals*—Shoal reported north-westward of.

*No. 317 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1622 of 1919), are republished :—

*Position.*—At a distance of about 28 miles north-westward of Greig shoals.

Lat.  $0^{\circ} 35' 30''$  S., long.  $108^{\circ} 12' 00''$  E.

*Depth.*— $3\frac{1}{2}$  fathoms.

*Note.*—The shoal is to be marked on charts with the note “*Repd.* (1919).”

*Charts affected.*—No. 941a, Eastern Archipelago—sheet I.

„ 2660a, China sea, southern portion—western sheet.

„ 1263, China sea.

„ 748b, Indian ocean—northern portion.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 216.

*Authority.*—Tokyo Notice No. 179 of 1919. (*H.* 5800/19.)

### JAPAN—INLAND SEA.

*Ayashi No Seto, Western Entrance*—Non-existence of Wreck.

*No. 318 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1645 of 1919), are republished :—

*Former Notice.*—No. 645 of 1917. (*This Office No. 220 of 1917.*)

*Position.*—At a distance of about  $3\frac{1}{2}$  miles westward from Ye saki light-house.

Lat  $34^{\circ} 35\frac{1}{2}'$  N., long.  $134^{\circ} 55\frac{1}{2}'$  E.

*Details.*—The wreck shown on the charts in the above position no longer exists and is to be expunged.

*Charts affected.*—No. 3566, Izumi nada and Harima nada.

„ 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 263 of 1919. *H.* (6502/19.)

### CHINA, EAST COAST.

*Chifu (Yantai) Approach*—Rock reported.

*No. 319 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1646 of 1919), are republished :—

*Position.*—At a distance of about 16 miles northward of Chifu light-house.

Lat.  $37^{\circ} 48' 00''$  N., long.  $121^{\circ} 30' 00''$  E., on chart No. 1255.

*Depth.*— $4\frac{1}{2}$  fathoms.



*Remarks.*—The rock is about 70 yards in extent.

*Charts affected.*—No. 1255, Kyau chau bay to Lai chau bay.  
 „ 1256, Gulf of Pe chili and Lian tung.  
 „ 1262, Hongkong to Gulf of Lian tung.  
 „ 2459, North-west Pacific ocean, etc.

*Publication.*—China Sea Pilot, Vol.V, 1912, page 465.

*Authority.*—Tokyo Notice No. 170 of 1919. (H. 5103/19.)

### CHINA, EAST COAST.

*Approaches to Kyau Chau Bay—Prohibited areas abolished.*

*No. 320 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1648 of 1919), are republished :—

*Position.*—Tai-kung tau lighthouse, lat.  $35^{\circ} 57\frac{1}{2}'$  N., long.  $120^{\circ} 29\frac{1}{2}'$  E.

*Remarks.*—The following prohibited areas have been abolished and are to be erased from the charts :—

- (1) The rectangular area with its south-eastern corner at the summit of Tai-kung tau, and extending north-westward to Swallow bank.
- (2) The area within the circle of which the centre is Ohu cha tau and the radius  $1\frac{1}{4}$  miles.

*Charts affected.*—No. 857, Kyau chau bay.

„ 1255, Kyau chau bay to Lai chau bay.

„ 3480, Shantung promontory to Nagasaki.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 412; Revised Supplement (II), 1918.

*Authority.*—Tokyo Notice No 234 of 1919. (H. 6374/19.)

### JAPAN—SOUTH COAST.

*Mororan Ko—Light-buoy established.*

*No. 321 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1652 of 1919), are republished :—

*Position.*—At a distance of  $6\frac{1}{10}$  cables,  $315^{\circ}$  (N.  $38^{\circ}$  W. Mag.), from Daikoku Ja lighthouse.

Daikoku Ja lighthouse, lat.  $42^{\circ} 20\frac{1}{2}'$  N., long.  $140^{\circ} 55\frac{1}{2}'$  E.

*Description.*—A black cylindrical light-buoy, exhibiting a flashing red light every three seconds.

*Variation.*— $7^{\circ}$  W.

*Charts affected.*—No. 3507, Mororan ko.

„ 3591, Iburi wan or Uchiurā wan.

*Publication.*—Japan Pilot, 1914, page 718.

*Authority.*—Tokyo Notice No. 743 of 1919. (H. 5217/19.)



JAPAN—NAIKAI OR INLAND SEA.

*Non-existence of Wrecks.*

No. 322 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1653 of 1919), are republished:—

*Former Notices.*—Nos. 1228 of 1917 and 496 of 1918. (This office Nos. 35 and 191 of 1918.)

Position.		Position.	
Lat. N.	Long. E.	Lat. N.	Long. E.
(1) 33° 55' 18"	131° 31' 08"	(9) 33° 48' 28"	131° 24' 45"
(2) 34° 18' 12"	132° 59' 45"	(10) 33° 51' 34"	132° 18' 30"
(3) 33° 51' 47"	131° 18' 37"	(11) 33° 53' 45"	132° 04' 00"
(4) 33° 50' 40"	131° 16' 45"	(12) 33° 51' 42"	132° 20' 36"
(5) 33° 53' 19"	131° 22' 15"	(13) 33° 50' 20"	132° 20' 15"
(6) 33° 52' 20"	131° 12' 23"	(14) 34° 19' 30"	133° 24' 00"
(7) 33° 52' 45"	131° 13' 18"	(15) 33° 47' 40"	131° 38' 45"
(8) 33° 56' 21"	131° 03' 45"		

*Remarks.*—The above-mentioned wrecks are to be expunged from the charts.

*Charts affected.*—No. 3153, Maruyama zaki to Ominase.  
 „ 3325, Channels between Neko seto and Mekari seto.  
 „ 3225, Shimonoseki kaikyo to Maruyama zaki.  
 „ 3154, Ominase to Gogo shima.  
 „ 2875, Naikai or Inland sea.  
 „ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notice No. 209 of 1919. (H. 5847/19.)

JAPAN—NAIKAI OR INLAND SEA.

*Izumi Nada and Suō Nada—Non-existence of Wrecks.*

No. 323 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1654 of 1919), are republished:—

*Former Notices.*—Nos. 287 and 808 of 1918; No. 434 of 1919. (This office Nos. 135 and 267 of 1918, No. 111 of 1919.)

The following wrecks have been either raised, destroyed or have disappeared:—

1. *Position.*—At a distance of about 2 $\frac{1}{10}$  miles south-westward from Wada misaki light.  
 Lat. 34° 36' 28" N., long. 135° 09' 55" E., on chart No. 16.
2. *Position.*—At a distance of about 1 $\frac{1}{10}$  miles southward from the above light.  
 Lat. 34° 37' 33" N., long. 135° 10' 44" E. on chart No. 16.
3. *Position.*—At a distance of about 1 $\frac{1}{10}$  miles north-eastward from the above light.  
 Lat. 34° 39' 33" N., long. 135° 12' 12" E., on chart No. 2265.
4. *Position.*—At a distance of about 1 mile eastward from Saba shima.  
 Lat. 33° 57' 44" N., long. 131° 31' 46" E., on chart No. 3153.

*Remarks.*—The above-mentioned wrecks are to be expunged from the charts.

*Charts affected.*—No. 2265, Kobe and Hyogo bays.  
 „ 3153, Maruyama zaki to Ominase.  
 „ 16, Kobe and Osaka.  
 „ 3506, Izumi nada and Harima nada.  
 „ 2875, Naikai (Seto uchi) or Inland sea.  
 „ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notice No. 219 of 1919. (H. 5864/19.)



JAPAN, SOUTH COAST.

*Kitsuki Wan and Northern Approach—Existence of Rocks.*

No. 324 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1659 of 1919), are republished :—

(a) *Position*.—At a distance of  $1\frac{3}{10}$  miles,  $184^{\circ}$  (S.  $8^{\circ}$  W. *Mag.*), from Moriye light-beacon.

Lat.  $33^{\circ} 23\frac{1}{2}'$  N., long.  $131^{\circ} 39\frac{1}{2}'$  E.

*Depth*.—3 fathoms.

(b) *Position*.—At a distance of about  $2\frac{1}{10}$  miles,  $185^{\circ}$  (S.  $9^{\circ}$  W. *Mag.*), from Aki saki light.

Lat.  $33^{\circ} 25\frac{1}{2}'$  N., long.  $131^{\circ} 43\frac{1}{2}'$  E.

*Depth*.— $4\frac{1}{2}$  fathoms.

*Remarks*.—The above-mentioned rocks are known by the names "Kamisono Se" and "Natano Se" respectively.

*Variation*.— $4^{\circ}$  W.

*Charts affected*.—No. 651, Bungo channel.

„ 2875, Naikai or Inland sea.

„ 1648, Osumi kaikyo to O shima.

„ 358, Western coasts of Kiusiu and Honshu.

*Publication*.—Japan Pilot, 1914, pages 394 and 395.

*Authority*.—Tokyo Notice No. 182 of 1919. (*H.* 5801/19.)

KOREA, WEST COAST.

*Popusompu Approach—Shoal reported.*

No. 325 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1667 of 1919), are republished :—

*Position (approximate)*.—Lat.  $35^{\circ} 25' 00''$  N., long.  $126^{\circ} 21' 00''$  E.

*Depth*.—Less than 6 feet, bottom shingle.

*Remarks*.—The shoal is about three-quarters of a cable in extent.

*Note*.—The shoal is to be marked on the charts with the note "*Repd.* (1919) (*Posn. approx.*)."

*Charts affected*.—No. 913, Mackau group to Clifford islands.

„ 3480, Shantung promontory to Nagasaki.

„ 2347, Honshū, Kiusiu and Shikoku, etc.

„ 1262, Hongkong to Gulf of Liau-tung.

*Publication*.—China Sea Pilot, Vol. V, 1912, page 631.

*Authority*.—Tokyo Notice No. 254 of 1919. (*H.* 6494/19.)

JAPAN, INLAND SEA—GULF OF OSAKA.

*Ayashi No Seto—Correction to Chart No. 3566 with regard to Wreck.*

No. 326 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1681 of 1919), are republished :—

*Former Notice*.—No. 1255 of 1919. (*This office No. 264 of 1919.*)

*Position*.—At a distance of  $3\frac{1}{2}$  cables,  $300^{\circ}$  (N.  $55^{\circ}$  W. *Mag.*), from Ye Saki lighthouse.

Lat.  $34^{\circ} 36\frac{1}{2}'$  N., long.  $134^{\circ} 59'$  E.

*Description*.—Sunken wreck of SS. *Daini Tiō sei Maru*.



*Remarks.*—The foregoing wreck is not shown on some copies of chart No. 3566 and is to be inserted.

*Variation.*—5° W.

*Chart affected.*—No. 3566, Izumi nada and Harima nada.

*Authority.*—Hydrographic Department. (H. 6858/19.)

NEW ZEALAND, NORTH COAST—AUCKLAND HARBOUR  
APPROACH.

*Rough Rock buoy withdrawn and Beacon erected.*

No. 327 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1694 of 1919), are republished :—

(a) Buoy withdrawn :

*Position.*—At a distance of about 6½ cables eastward from Takāpuna head flagstaff.

Lat. 36° 49' S., long. 174° 49½' E.

*Description.*—A spherical buoy painted with black and white horizontal stripes.

*Remarks.*—This buoy is to be expunged from the charts.

(b) Beacon erected :

*Position.*—On the pinnacle of Rough rock

Lat. 36° 49' 01" S., long. 174° 49' 17" E., on chart No. 1970.

*Description.*—An iron tripod surmounted by a barrel-shaped topmark, 18 feet in height.

*Charts affected.*—No. 1970, Auckland harbour and approaches.

„ 1896, Entrances to Auckland harbour.

„ 2543, Maunganui bluff to Manukau harbour.

*Publication.*—New Zealand Pilot, 1908, page 36; Supplement No. (3) 1917.

*Authority.*—Marine Department, Wellington, N.Z., Notice No. 29 of 1919. (H. 6063/19.)

RED SEA—ARABIAN COAST.

*Loheiya Approaches—Buoy withdrawn; Buoys established.*

No. 328 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1708 of 1919), are republished :—

(1) Buoy withdrawn :

*Position.*—At a distance of about 4½ miles northward from hut on northern end of Kamaran island.

Lat. 15° 32½' N., long. 42° 36½' E.

*Description.*—A white conical buoy marking southern edge of Shab Bodinjan shoal.

*Note.*—The above-mentioned buoy is to be erased from the charts.

(2) Buoys established :

(a) *Position.*—At a distance of about 4½ miles northward from hut on northern end of Kamaran island.

Lat. 15° 32' 37" N., long. 42° 36' 30" E.

*Description.*—A black can buoy surmounted by a ball topmark.

*Remarks.*—This buoy marks the western edge of Shab Bodinjan shoal.



(b) *Position*.—At a distance of about 4½ miles south-eastward from summit of Entufash island.

Lat. 15° 38' 00" N., long. 42° 24' 30" E.

*Description*.—A black can buoy surmounted by a drum topmark.

*Remarks*.—This buoy marks the northern limit of the shoal water lying midway between Okban island and eastern extreme of Entufash island.

*Charts affected*—No. 143, Jebel Teir to Perim island.

„ 8d. Red Sea—sheet IV.

*Publication*.—Red Sea and Gulf of Aden Pilot, 1909, page 360.

*Authority*.—H.M.S. *Merlin* Hydrographic Note No. 6 of 1919. (H. 5776/19.)

#### CHINA, SOUTH COAST.

##### *Hongkong Harbour—Alteration in position of Light-Buoys.*

No. 329 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1721 of 1919), are republished:—

1. Northern light-buoy marking western end of Central fairway :

*New position*.—At a distance of about 350 yards westward from former position.

Lat. 22° 18' 02" N., long. 114° 07' 50" E.

*Description*.—A light buoy, painted red and white, exhibiting a flashing white light every three seconds.

2. Southern light-buoy marking western end of Central fairway :

*New position*.—At a distance of about 360 yards westward from former position.

Lat. 22° 17' 51" N., long. 114° 07' 50" E.

*Description*.—A light-buoy, painted red and white, exhibiting a flashing white light every three seconds.

*Charts affected*.—No. 3280, Hongkong waters—west.

„ 1466, Hongkong.

*Publication*.—China Sea Pilot, Vol. III, 1912, page 501; Supplement No. 4, 1919.

*Authority*.—Harbour Master, Hongkong. (H. 6416/19.)

#### RED SEA—EASTERN SHORE.

##### *Kamaran Passage, Southern Approach—Buoy disappeared.*

No. 330 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1724 of 1919), are republished:—

*Position*.—At a distance of about 12½ cables south-westward from the telegraph hut on Ras el Bayádh.

Lat. 15° 14½' N., long. 42° 34½' E.

*Description*.—A red conical buoy, surmounted by a staff and cylinder.

*Remarks*.—This buoy is to be expunged from the charts.

*Chart affected*.—No. 543, Kamaran passage and southern approach.

*Authority*.—H.M.S. *Topaze* Hyd. Note No. 1 of 1919. (H. 6821/19.)



INDIA—WEST COAST.

*Buoys between Alibag and Bhatkal relaid.*

No. 331 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 73M. of 1919), are republished:—  
Former Notices Nos. 39M. and 49M. of 1919. (This office Nos. 171 and 200 of 1919.)

Details.—The following buoys which were withdrawn during the south-west monsoon were relaid in their respective positions on the dates noted against them:—

Alibag Buoy	...	...	30th Sept. 1919.
Ambalgarh Reef Buoy	...	...	21st Sept. 1919.
Berbera	...	...	10th Oct. 1919.
Malvan Inner Harbour. Buoy (2 in number)	...	...	18th Sept. 1919.
Malvan Red Light Boat	...	...	7th Sept. 1919.
Malvan Fort Harbour Buoy	...	...	18th Sept. 1919.
Malvan Rock Buoy	...	...	12th Oct. 1919.
Malvan Johnston Castle Rock Buoy	...	...	18th Sept. 1919.
Malvan Rajkot Fort Buoy	...	...	18th Sept. 1919.
Chaldea Rock Buoy	...	...	10th Oct. 1919.
Vengurla South Rock Buoy	...	...	4th Oct. 1919.
Bhatkal Rock Buoy	...	...	27th Sept. 1919.
Madeshwar Dart Rock Buoy	...	...	26th Sept. 1919.

Authority.—Acting Commissioner of Customs, Salt and Excise, Camp *via* Bombay, 13th October 1919.

The 3rd November 1919.

MALACCA STRAIT.

*Penang Harbour—Shoal reported.*

No. 312 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1581 of 1919), are republished:—

Position.—Lat. 5° 21' 47" N., long. 100° 21' 10" E.

Depth.—About 2 fathoms.

Note.—The shoal is to be marked "Repd. (1919)" on the charts.

Charts affected.—No. 3732, Penang harbour.

" 1366, Penang harbour and approaches.

" 793, Butang group to Pulo Berhala.

Publication.—China Sea Pilot, Vol. I, 1916, page 176.

Authority.—Board of Trade. (H. 6350/19.)

CHINA SEA—FORMOSA STRAIT.

*Formosa Banks—Amended Depths on Shoals*

No. 313 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1593 of 1919), are republished:—

Former Notice.—No. 364 of 1918. (This Office No. 147 of 1918.)

(a) Position.—Lat. 23° 01' N., long. 118° 36' E.

Depth.—5½ fathoms, instead of 4½ fathoms shown on chart.



(b) *Position*.—Lat.  $23^{\circ} 01' N.$ , long.  $118^{\circ} 30\frac{1}{2}' E.$

*Depth*.— $4\frac{1}{2}$  fathoms, instead of  $3\frac{1}{2}$  fathoms shown on chart.

(c) *Position*.—Lat.  $22^{\circ} 56' N.$ , long.  $118^{\circ} 35' E.$

*Depth*.— $5\frac{1}{2}$  fathoms, instead of 4 fathoms shown on chart.

(d) *Position*.—Lat.  $22^{\circ} 54\frac{1}{2}' N.$ , long.  $118^{\circ} 42\frac{1}{2}' E.$

*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart

(e) *Position*.—Lat.  $22^{\circ} 45\frac{1}{2}' N.$ , long.  $118^{\circ} 13\frac{1}{2}' E.$

*Depth*.— $5\frac{1}{2}$  fathoms, instead of  $4\frac{1}{2}$  fathoms shown on chart.

*Charts affected*.—No. 1968, Formosa island and strait.

„ 2661b, China sea, northern portion—eastern sheet.

„ 1262, Hongkong to Gulf of Liau-tung.

„ 1263, China sea.

„ 2683, Pacific ocean.

„ 2483, Atlantic and Indian oceans, &c.

„ 2937, Oceanic soundings, Indian and Western oceans.

*Publication*.—China Sea Pilot, Vol. V, 1912, pages 134, 135.

*Authority*.—Tokyo Notice No. 256 of 1919. (*H. 6496/19.*)

#### JAPAN, HONSHU—GULF OF TOKYO.

*Yokosuka Naval Port—Submerged Obstruction removed.*

No. 314 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1595 of 1919), are re-published:—

*Position*.—At a distance of 6 cables,  $55^{\circ}$  (*N.  $60^{\circ}$  E. Mag.*), from the northern extremity of Saru shima.

Lat.  $35^{\circ} 17\frac{1}{2}' N.$ , long.  $139^{\circ} 42\frac{1}{2}' E.$

*Details*.—The dangerous submerged obstructions which formerly existed in the vicinity of the position given above have been removed, and the note with reference to them on the charts is to be expunged, together with the small circular area which indicated the position.

*Variation*.— $5^{\circ}$  W.

*Charts affected*.—No. 3548, Yokohama to Uraga.

„ 2657, Gulf of Tokyo or Yedo.

„ 953, Omai saki to Tsurugi saki.

*Publication*.—Japan Pilot, 1914, page 260; Revised Supplement (2), 1919.

*Authority*.—Tokyo Notice No. 211 of 1919. (*H. 5849/19.*)

W. K. THYNE, COMDR., R.I.M.,

*Deputy Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, DECEMBER 3, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 24th November 1919.

#### BAY OF BENGAL—INDIA.

*Madras harbour, southern breakwater—Temporary light removed.*

*No. 333 (first publication).—*

*Former Notice.—No. 375 of 1916.*

*Subject.—*The temporary fixed red light on the north arm of the southern breakwater has been removed and will not be replaced till about 1st January 1920 or thereabouts.

*Position.—*Lat.  $13^{\circ} 06' N.$ , long.  $80^{\circ} 18' E.$

*Charts affected.—*No. 575, Madras to Ramapatnam, with plan.  
" 71, Madras to Calimere Point.

*Publications.—*List of Lights, Part VI, 1919, No. 562.

Bay of Bengal Pilot, 1910, page 218. Revised Supplement (2), 1917.

*Authority.—*Madras Notice No. 27(a) of 1919.

#### INDIA, WEST.

##### TRAVANCORE COAST, KOLACHEL.

*Patna rock red buoy—Replaced in position.*

*No. 334 (first publication).—*With reference to Notice to Mariners No. 188 of 1919 issued by this office, the Principal Port Officer, Travancore, Alleppey, has given further Notice, dated the 17th September 1919, that the Patna rock red buoy has been replaced in position.



## INDIA, WEST.

## TRAVANCORE COAST.

*Entrance to Quilon anchorage—Buoys replaced in position.*

No. 335 (*first publication*).—With reference to this office Notice to Mariners No. 187 of 1919, the Principal Port Officer, Travancore, Alleppey, has given further Notice, dated the 27th October 1919, that the buoys marking the entrance to the Inner anchorage at Quilon have been replaced and their position is as follows :—

Red buoy bears from Tangacherry lighthouse S. E. distance about 8½ cables.

Black buoy bears from Tangacherry lighthouse S. E. ½ S. about 11½ cables.

The attention of mariners is drawn to the note appearing on the chart of the Quilon Road, Sheet XII, West Coast of India, with reference to these buoys.

*Note.*—The flagstaff and Messrs. Harrison and Crosfield tall red chimney in line leads into the Anchorage, clear of both reefs.

## AFRICA, EAST COAST—PORT MOMBASSA.

(1) *Port Kilindini—Alteration to beacon.*

(2) *Port Tudor—Beacon established.*

(3) *Ras Serani—Wreck southward of—no longer conspicuous.*

No. 336 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 74M. of 1919), are republished :—

(1) *Position.*—Lat. 4° 4' 7" S.

Long. 39° 39' 9" E.

*Details.*—The iron black triped beacon with a spherical top mark, marking the north-west end of Kilindini reefs has been replaced by a white concrete beacon.

(2) *Position of Port Tudor.*—Lat. 4° 14' S.

Long. 39° 40½' E.

*Details.*—An iron triped beacon has been established on the north edge of the easterly reef running out from Kwamawana Ima.

(3) *Position.*—Lat. 4° 4' 24" S.

Long. 39° 41' 20" E.

*Details.*—The wreck of SS. "Ahmadi" situated at about 1½ cables south-eastward of the flashing white light on Ras Serani, although still readily visible, is no longer conspicuous.

*Charts affected.*—No. 666, Port Mombassa.

„ 664, Zanzibar to Milindi.

*Publication.*—East Coast of Africa Pilot, 1915, pages 471, 473.

*Authority.*—Commander-in-Chief, East Indies Station, dated 22nd October 1919.



PERSIAN GULF.

*Ras al Mutaf*—Derelict reported south-eastward of.

No. 337 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 75M. of 1919), are republished:—

Details.—The Master of SS. "War Loch" states in his arrival report that he passed a water-logged Dhow on the 25th October 1919 in the following position.

Position.—Lat.  $27^{\circ} 33' N.$

Long.  $51^{\circ} 50' E.$

Caution.—Mariners are hereby warned accordingly.

Charts affected.—No. 2837(b), Persian Gulf, Western Sheet.  
" 748(b), Indian Ocean, Northern Portion.

Authority.—Officiating Port Officer, Bombay, dated 7th November 1919.

The 19th November 1919.

BAY OF BENGAL.

MADRAS COAST.

Caution.—Off Baruva—Report of a derelict Barque "Hyastan".

No. 332 (second publication).—

Subject.—On the 17th November 1919 the Barque "Hyastan" water-logged and dismantled, was abandoned 100 miles south-east of Baruva. The current was setting south and west.

Caution.—Mariners are hereby warned.

Charts affected.—No. 1424, Bimlipatam to Gopalpore.  
" 829, Cocanada to Bassein river.

Authority.—The Master of the Barque "Hyastan" telegram dated Baruva, the 19th November 1919.

The 11th November 1919.

MALACCA STRAIT.

*Penang Harbour*—Alterations in Light-Beacons, Beacons and Buoys.

No. 315 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1609 of 1919), are republished:—

(a) Alteration in position of No. 4 light-beacon:

New position.—At a distance of about one cable northward from position shown on charts.

Lat.  $5^{\circ} 21' 26'' N.$ , long.  $100^{\circ} 21' 07'' E.$

Description.—A light-beacon painted white, exhibiting a fixed green light.

(b) Light-beacon established:

Position.—Lat.  $5^{\circ} 19' 50'' N.$ , long.  $100^{\circ} 21' 05'' E.$

Description.—A light-beacon painted white, exhibiting a fixed white light.

(c) Beacon established:

Position.—Lat.  $5^{\circ} 24' 20'' N.$ , long.  $100^{\circ} 20' 50'' E.$

Description.—A red beacon.



## (d) Beacon destroyed :

*Position.*—Lat.  $5^{\circ} 23' 20''$  N., long.  $100^{\circ} 21' 28''$  E.

*Description.*—A white beacon.

*Remarks.*—This beacon is to be expunged from the charts.

## (e) Buoys withdrawn :

*Details.*—The following buoys have been withdrawn and are to be expunged from the charts:—

- (i) The two red buoys with topmarks, at distances of about 3 cables and  $3\frac{1}{2}$  cables northward respectively from Fort Cornwallis.
- (ii) The wreck-buoy in the vicinity of the red beacon described in (c) above.
- (iii) No. 1 red conical buoy, at a distance of about 2 cables southward from the beacon described in (c) above.
- (iv) No. 6 white conical buoy, at a distance of about  $3\frac{1}{2}$  cables south-eastward from No. 5 light-beacon.
- (v) No. 7 white conical buoy, at a distance of about 14 cables southward from No. 5 light-beacon.

*Charts affected.*—No. 3732, Penang harbour.

„ 1366, Penang harbour and approaches.

„ 793, Bqtang group to Pulo Berhala.

*Publications.*—List of Lights, Part VI, 1919, No. 743 (Remarks).  
China Sea Pilot, Vol. I, 1916, page 177.

*Authority.*—Harbour Master, Penang. (H. 6276/19.)

## JAPAN, INLAND SEA—SUWO NADA.

*Motoyama Bay—Wrecks southward and south-eastward of.*

*No. 316 (third publication).*—The following particulars, etc., relative to the above issued by the British Admiralty (No. 1620 of 1919), are republished:—

## 1. Wreck southward of:

*Position (approximate).*—Lat.  $33^{\circ} 51' 03''$  N., long.  $131^{\circ} 14' 38''$  E.

*Description.*—Sunken wreck of SS. *Daini Kaishin Maru*.

*Remarks.*—The wreck is marked by a spar buoy.

## 2. Wreck south-eastward of:

*Position.*—Lat.  $33^{\circ} 48' 00''$  N., long.  $131^{\circ} 22' 17''$  E.

*Description.*—Sunken wreck of two-masted schooner *Kinei Maru*.

*Remarks.*—The wreck is marked by a post and flag.

*Note.*—The positions given refer to chart No. 3225.

*Charts affected.*—No. 3225, Shimonoseki kaikyo to Maruyama zaki.

„ 2875, Naikai (Seto uchi) or Inland sea.

„ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notices Nos. 222 and 239 of 1919, (H. 5356 & 6378/19.)



## BORNEO, WEST COAST.

*Greig Shoals—Shoal reported north-westward of.*

*No. 317 (third publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1622 of 1919), are republished :—

*Position.*—At a distance of about 28 miles north-westward of Greig shoals.

Lat.  $0^{\circ} 35' 30''$  S., long.  $108^{\circ} 12' 00''$  E.

*Depth.*— $8\frac{1}{2}$  fathoms.

*Note.*—The shoal is to be marked on charts with the note "*Repd. (1919).*"

*Charts affected.*—No. 941a, Eastern Archipelago—sheet I.  
 .. 2660a, China sea, southern portion—western sheet.  
 .. 1263, China sea.  
 .. 748b, Indian ocean—northern portion.

*Publication.*—China Sea Pilot, Vol. II, 1915, page 216.

*Authority.*—Tokyo Notice No. 179 of 1919. (*H. 5800/19.*)

## JAPAN—INLAND SEA.

*Ayashi No Seto, Western Entrance—Non-existence of Wreck.*

*No. 318 (third publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1645 of 1919), are republished :—

*Former Notice.*—No. 645 of 1917. (*This Office No. 220 of 1917.*)

*Position.*—At a distance of about  $3\frac{1}{2}$  miles westward from Ye saki light-house.

Lat  $34^{\circ} 35\frac{1}{2}'$  N., long.  $134^{\circ} 55\frac{1}{2}'$  E.

*Details.*—The wreck shown on the charts in the above position no longer exists and is to be expunged.

*Charts affected.*—No. 3566, Izumi nada and Harima nada.  
 .. 2875, Naikai (Seto uchi) or Inland sea.

*Authority.*—Tokyo Notice No. 263 of 1919. (*H. 6502/19.*)

## CHINA, EAST COAST.

*Chifu (Yantai) Approach—Rock reported.*

*No. 319 (third publication).—*The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1646 of 1919), are republished :—

*Position.*—At a distance of about 16 miles northward of Chifu light-house.

Lat.  $37^{\circ} 48' 00''$  N., long.  $121^{\circ} 30' 00''$  E., on chart No. 1255

*Depth.*— $4\frac{1}{2}$  fathoms.

*Remarks.*—The rock is about 70 yards in extent.

*Charts affected.*—No. 1255, Kyau chau bay to Lai chau bay.  
 .. 1256, Gulf of Pe chili and Liau tung.  
 .. 1262, Hongkong to Gulf of Liau tung.  
 .. 2459, North-west Pacific ocean, etc.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 465.

*Authority.*—Tokyo Notice No. 170 of 1919. (*H. 5103/19.*)



## CHINA, EAST COAST.

*Approaches to Kyau Chau Bay—Prohibited areas abolished.*

*No. 320 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1648 of 1919), are republished :—

*Position.*—Tai-kung tau lighthouse, lat.  $35^{\circ} 57\frac{1}{2}'$  N., long.  $120^{\circ} 29\frac{1}{2}'$  E.

*Remarks.*—The following prohibited areas have been abolished and are to be erased from the charts :—

- (1) The rectangular area with its south-eastern corner at the summit of Tai-kung tau, and extending north-westward to Swallow bank.
- (2) The area within the circle of which the centre is Chu cha tau and the radius  $1\frac{1}{4}$  miles.

*Charts affected.*—No. 857, Kyau chau bay.

.. 1255, Kyau chau bay to Lai chau bay.

.. 3480, Shantung promontory to Nagasaki.

*Publication.*—China Sea Pilot, Vol. V, 1912, page 412; Revised Supplement (II), 1918.

*Authority.*—Tokyo Notice No. 234 of 1919. (H. 6374/19.)

## JAPAN—SOUTH COAST.

*Mororan Ko—Light-buoy established.*

*No. 321 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1652 of 1919), are republished :—

*Position.*—At a distance of  $6\frac{1}{10}$  cables,  $315^{\circ}$  (N.  $38^{\circ}$  W. *Mag.*), from Daikoku Ja lighthouse.

Daikoku Ja lighthouse, lat.  $42^{\circ} 20\frac{1}{2}'$  N., long.  $140^{\circ} 55\frac{1}{2}'$  E.

*Description.*—A black cylindrical light-buoy, exhibiting a *flashing red light every three seconds.*

*Variation.*— $7^{\circ}$  W.

*Charts affected.*—No. 3507, Mororan ko.

.. 3591, Iburi wan or Uchinrā wan.

*Publication.*—Japan Pilot, 1914, page 718.

*Authority.*—Tokyo Notice No. 743 of 1919. (H. 5217/19.)

## JAPAN—NAIKAI OR INLAND SEA.

*Non-existence of Wrecks.*

*No. 322 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1653 of 1919), are republished :—

*Former Notices.*—Nos. 1228 of 1917 and 496 of 1918. (*This office Nos. 35 and 191 of 1918.*)



Position.		Position.	
Lat. N.	Long. E.	Lat. N.	Long. E.
(1) 33° 55' 18"	131° 31' 08"	(9) 33° 48' 28"	131° 24' 45"
(2) 34° 18' 12"	132° 59' 45"	(10) 33° 51' 34"	132° 18' 30"
(3) 33° 51' 47"	131° 18' 37"	(11) 33° 53' 45"	132° 04' 00"
(4) 33° 50' 40"	131° 16' 45"	(12) 33° 51' 42"	132° 20' 36"
(5) 33° 53' 19"	131° 22' 15"	(13) 33° 50' 20"	132° 20' 15"
(6) 33° 52' 20"	131° 12' 23"	(14) 34° 19' 30"	133° 24' 00"
(7) 33° 52' 45"	131° 13' 18"	(15) 33° 47' 40"	131° 38' 45"
(8) 33° 56' 21"	131° 03' 45"		

*Remarks.*—The above-mentioned wrecks are to be expunged from the charts.

*Charts affected.*—No. 3153, Maruyama zaki to Ominase.  
 „ 3325, Channels between Neko seto and Mekari seto.  
 „ 3225, Shimonoseki kaikyo to Maruyama zaki.  
 „ 3154, Ominase to Gogo shima.  
 „ 2875, Naikai or Inland sea.  
 „ 358, Western coasts of Kiusiu and Honshū.

*Authority.*—Tokyo Notice No. 209 of 1919. (H. 5847/19.)

#### JAPAN—NAIKAI OR INLAND SEA.

##### *Izumi Nada and Suō Nada—Non-existence of Wrecks.*

No. 323 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1654 of 1919), are republished :—

*Former Notices.*—Nos. 287 and 808 of 1918; No. 434 of 1919. (This office Nos. 135 and 267 of 1918, No. 111 of 1919.)

The following wrecks have been either raised, destroyed or have disappeared :—

1. *Position.*—At a distance of about 2 $\frac{1}{2}$  miles south-westward from Wada misaki light.  
 Lat. 34° 36' 28" N., long. 135° 09' 55" E., on chart No. 16.
2. *Position.*—At a distance of about 1 $\frac{1}{2}$  miles southward from the above light.  
 Lat. 34° 37' 33" N., long. 135° 10' 44" E. on chart No. 16.
3. *Position.*—At a distance of about 1 $\frac{1}{2}$  miles north-eastward from the above light.  
 Lat. 34° 39' 33" N., long. 135° 12' 12" E., on chart No. 2265.
4. *Position.*—At a distance of about 1 mile eastward from Saba shima.  
 Lat. 33° 57' 44" N., long. 131° 31' 46" E., on chart No. 3153.

*Remarks.*—The above-mentioned wrecks are to be expunged from the charts.

*Charts affected.*—No. 2265, Kobe and Hyogo bays.  
 „ 3153, Maruyama zaki to Ominase.  
 „ 16, Kobe and Osaka.  
 „ 3566, Izumi nada and Harima nada.  
 „ 2875, Naikai (Seto nehi) or Inland sea.  
 „ 358, Western coasts of Kinsiu and Honshū.

*Authority.*—Tokyo Notice No. 219 of 1919. (H. 5864/19.)



## JAPAN, SOUTH COAST.

*Kitsuki Wan and Northern Approach—Existence of Rocks.*

No. 324 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1659 of 1919), are republished :—

(a) *Position*.—At a distance of  $1\frac{3}{10}$  miles,  $184^{\circ}$  (*S.  $8^{\circ}$  W. Mag.*), from Moriye light-beacon.

Lat.  $33^{\circ} 23\frac{1}{2}'$  N., long.  $131^{\circ} 39\frac{1}{2}'$  E.

*Depth*.—3 fathoms.

(b) *Position*.—At a distance of about  $2\frac{3}{10}$  miles,  $185^{\circ}$  (*S.  $9^{\circ}$  W. Mag.*), from Aki saki light.

Lat.  $33^{\circ} 25\frac{1}{2}'$  N., long.  $131^{\circ} 43\frac{1}{2}'$  E.

*Depth*.— $4\frac{1}{2}$  fathoms.

*Remarks*.—The above-mentioned rocks are known by the names "Kamisono Se" and "Natano Se" respectively.

*Variation*.— $4^{\circ}$  W.

*Charts affected*.—No. 651, Bungo channel.

„ 2875, Naikai or Inland sea.

„ 1648, Osumi kaikyo to Oshima.

„ 358, Western coasts of Kiusiu and Honshu.

*Publication*.—Japan Pilot, 1914, pages 394 and 395.

*Authority*.—Tokyo Notice No. 182 of 1919. (*H. 5801/19.*)

## KOREA, WEST COAST.

*Popusompu Approach—Shoal reported.*

No. 325 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1667 of 1919), are republished :—

*Position (approximate)*.—Lat.  $35^{\circ} 25' 00''$  N., long.  $126^{\circ} 21' 00''$  E.

*Depth*.—Less than 6 feet, bottom shingle.

*Remarks*.—The shoal is about three-quarters of a cable in extent.

*Note*.—The shoal is to be marked on the charts with the note "*Repd. (1919) (Posn. approx.)*."

*Charts affected*.—No. 913, Mackau group to Clifford islands.

„ 3480, Shantung promontory to Nagasaki.

„ 2347, Honshū, Kiusiu and Shikoku, etc.

„ 1262, Hongkong to Gulf of Liau-tung.

*Publication*.—China Sea Pilot, Vol. V. 1912, page 631.

*Authority*.—Tokyo Notice No. 254 of 1919. (*H. 6494/19.*)

## JAPAN, INLAND SEA—GULF OF OBAKA.

*Ayashi No Seto—Correction to Chart No. 3566 with regard to Wreck.*

No. 326 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1681 of 1919), are republished :—

*Former Notice*.—No. 1255 of 1919. (*This office No. 264 of 1919.*)

*Position*.—At a distance of  $3\frac{1}{2}$  cables,  $300^{\circ}$  (*N.  $55^{\circ}$  W. Mag.*), from Ye Saki lighthouse.

Lat.  $34^{\circ} 36\frac{1}{2}'$  N., long.  $134^{\circ} 59'$  E.

*Description*.—Sunkén wreck of SS. *Daini Tiō sei Maru*.



*Remarks.*—The foregoing wreck is not shown on some copies of chart No. 3566 and is to be inserted.

*Variation.*— $5^{\circ}$  W.

*Chart affected.*—No. 3566, Izumi nada and Harima nada.

*Authority.*—Hydrographic Department.. (H. 6858/19.)

# NEW ZEALAND, NORTH COAST—AUCKLAND HARBOUR APPROACH.

*Rough Rock buoy withdrawn and Beacon erected.*

*No. 327 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1694 of 1919), are republished :—

## (a) Buoy withdrawn :

*Position.*—At a distance of about  $6\frac{1}{2}$  cables eastward from Takapuna head flagstaff.

Lat.  $36^{\circ} 49'$  S., long.  $174^{\circ} 49\frac{1}{4}'$  E.

*Description.*—A spherical buoy painted with black and white horizontal stripes.

*Remarks.*—This buoy is to be expunged from the charts.

## (b) Beacon erected :

*Position.*—On the pinnacle of Rough rock

Lat.  $36^{\circ} 49' 01''$  S., long.  $174^{\circ} 49' 17''$  E., on chart No. 1970.

*Description.*—An iron tripod surmounted by a barrel-shaped topmark, 18 feet in height.

*Charts affected.*—No. 1970, Auckland harbour and approaches.

„ 1896, Entrances to Auckland harbour.

„ 2543, Maunganui bluff to Manukau harbour.

*Publication.*—New Zealand Pilot, 1908, page 36 ; Supplement No. (3) 1917.

*Authority.*—Marine Department, Wellington, N.Z., Notice No. 29 of 1919. (H. 6063/19.)

# RED SEA—ARABIAN COAST.

*Loheiya Approaches—Buoy withdrawn ; Buoys established.*

*No. 328 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1708 of 1919), are republished :—

## (1) Buoy withdrawn :

*Position.*—At a distance of about  $4\frac{1}{2}$  miles northward from hut on northern end of Kamaran island.

Lat.  $15^{\circ} 32\frac{1}{4}'$  N., long.  $42^{\circ} 36\frac{1}{4}'$  E.

*Description.*—A white conical buoy marking southern edge of Shab Bodinjan shoal.

*Note.*—The above-mentioned buoy is to be erased from the charts.

## (2) Buoys established :

(a) *Position.*—At a distance of about  $4\frac{1}{2}$  miles northward from hut on northern end of Kamaran island.

Lat.  $15^{\circ} 32' 37''$  N., long.  $42^{\circ} 36' 30''$  E.

*Description.*—A black can buoy surmounted by a ball topmark.

*Remarks.*—This buoy marks the western edge of Shab Bodinjan shoal.



(b) *Position*.—At a distance of about 4½ miles south-eastward from summit of Entufash island.

Lat.  $15^{\circ} 38' 00''$  N., long.  $42^{\circ} 24' 30''$  E.

*Description*.—A black can buoy surmounted by a drum topmark.

*Remarks*.—This buoy marks the northern limit of the shoal water lying midway between Okban island and eastern extreme of Entufash island.

*Charts affected*.—No. 143, Jebel Teir to Perim island.

„ 8d, Red Sea—sheet IV.

*Publication*.—Red Sea and Gulf of Aden Pilot, 1909, page 360.

*Authority*.—H.M.S. *Merlin* Hydrographic Note No. 6 of 1919. (H. 5776/19.)

#### CHINA, SOUTH COAST.

##### *Hongkong Harbour—Alteration in position of Light-Buoys.*

No. 329 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1721 of 1919), are republished:—

1. Northern light-buoy marking western end of Central fairway:

*New position*.—At a distance of about 350 yards westward from former position.

Lat.  $22^{\circ} 18' 02''$  N., long.  $114^{\circ} 07' 50''$  E.

*Description*.—A light buoy, painted red and white, exhibiting a *flashing white light every three seconds*.

2. Southern light-buoy marking western end of Central fairway:

*New position*.—At a distance of about 360 yards westward from former position.

Lat.  $22^{\circ} 17' 51''$  N., long.  $114^{\circ} 07' 50''$  E.

*Description*.—A light-buoy, painted red and white, exhibiting a *flashing white light every three seconds*.

*Charts affected*.—No. 3280, Hongkong waters—west.

„ 1466, Hongkong.

*Publication*.—China Sea Pilot, Vol. III, 1912, page 501; Supplement No. 4, 1919.

*Authority*.—Harbour Master, Hongkong. (H. 6416/19.)

#### RED SEA—EASTERN SHORE.

##### *Kamaran Passage, Southern Approach—Buoy disappeared.*

No. 330 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1724 of 1919), are republished:—

*Position*.—At a distance of about 12½ cables south-westward from the telegraph hut on Ras el Bayadh.

Lat.  $15^{\circ} 14'$  N., long.  $42^{\circ} 34'$  E.

*Description*.—A red conical buoy, surmounted by a staff and cylinder.

*Remarks*.—This buoy is to be expunged from the charts.

*Chart affected*.—No. 543, Kamaran passage and southern approach.

*Authority*.—H.M.S. *Topaze* Hyd. Note No. 1 of 1919. (H. 6821/19.)



## INDIA—WEST COAST.

*Buoys between Alibag and Bhatkal relaid.*

No. 331 (*third publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 73M. of 1919), are republished:—

Former Notices Nos. 39M. and 49M. of 1919. (*This office Nos. 171 and 200 of 1919.*)

*Details.*—The following buoys which were withdrawn during the south-west monsoon were relaid in their respective positions on the dates noted against them:—

Alibag Buoy	...	...	30th Sept. 1919.
Ambalgarh Reef Buoy	...	...	21st Sept. 1919.
Berbera	...	...	10th Oct. 1919.
Malvan Inner Harbour Buoy (2 in number)	...	...	18th Sept. 1919.
Malvan Red Light Boat	...	...	7th Sept. 1919.
Malvan Fort Harbour Buoy	...	...	18th Sept. 1919.
Malvan Rock Buoy	...	...	12th Oct. 1919.
Malvan Johnston Castle Rock Buoy	...	...	18th Sept. 1919.
Malvan Rajkot Fort Buoy	...	...	18th Sept. 1919.
Chaldea Rock Buoy	...	...	10th Oct. 1919.
Vengurla South Rock Buoy	...	...	4th Oct. 1919.
Bhatkal Rock Buoy	...	...	27th Sept. 1919.
Madeshwar Dart Rock Buoy	...	...	26th Sept. 1919.

*Authority.*—Acting Commissioner of Customs, Salt and Excise, Camp *via* Bombay, 13th October 1919.

W. K. THYNE, COMDR., R.I.M.,  
Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 10, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 1st December 1919.

#### RED SEA—GULF OF ADEN.

##### *Jibuti Bay—Buoys established.*

No. 338 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1775 of 1919), are republished:—

(a) *Position (approximate)*.—At a distance of  $15\frac{1}{2}$  cables,  $308^{\circ}$  (*N.  $51^{\circ}$  W. Mag.*), from Residency flagstaff.

Residency flagstaff, lat.  $11^{\circ} 35\frac{1}{2}'$  N.,  
long.  $43^{\circ} 9\frac{1}{2}'$  E.

*Description*.—A red conical buoy.

(b) *Position (approximate)*.—At a distance of  $10\frac{3}{4}$  cables,  $288^{\circ}$  (*N.  $71^{\circ}$  W. Mag.*), from Residency flagstaff.

*Description*.—A red conical buoy.

*Remarks*.—A note "*Position approximate*" is to be placed on the charts against these buoys.

*Variation*.— $1^{\circ}$  W.

*Chart affected*.—No. 253, Plan of Jibuti bay.

*Publication*.—Red Sea and Gulf of Aden Pilot, 1909, page 427;  
Revised Supplement (3), 1917.

*Authority*.—Paris Notice No. 677 of 1919. (*H. 3109/19.*)



## INDIAN OCEAN—MALDIVE ISLANDS.

*Ihavandiffulu Atoll—Existence of a Wreck.*

*No. 339 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1791 of 1919), are republished :—

*Position.*—At a distance of about three-quarters of a mile westward from Kanduguri.

Lat.  $7^{\circ} 04' 40''$  N., long.  $72^{\circ} 47' 15''$  E.

*Description.*—Wreck of the steamer *Oceano*, with hull, funnel and two masts showing above water.

*Charts affected.*—No. 66a, Maldive islands—northern sheet.  
 „ 827, Vengurla to Cape Comorin.  
 „ 1012, Arabian sea.

*Publication.*—W. C. India Pilot, 1909, page 374.

*Authority.*—Hydrographic Department. (H. 6303/19)

## PERSIAN GULF.

*Shatt Al Arab Entrance—Information with regard to Night Tidal Signals.*

*No. 340 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1798 of 1919), are republished :—

*Position.*—Tidal Semaphore, lat.  $29^{\circ} 50\frac{1}{2}'$  N., long.  $48^{\circ} 42\frac{1}{2}'$  E.

*Details.*—The following additional night signals are now shown :—

- (a) One red over one white light—11 feet.
- (b) A green light exhibited below any of the other light signals denotes the immediate half foot and will be shown as long as there are six or more inches above the even foot.

*Remarks.*—All lights are now 11 feet apart instead of 6 feet as formerly.

*Publication.*—Persian Gulf Pilot, 1915, page 281 ; Supplement No. 4, 1919.

*Authority.*—The Port Officer, Basrah. (H. 6433/19.)

## CHINA SEA—SHANGHAI DISTRICT, YANGTZE RIVER.

*Langshan Crossing to be abandoned ; Buoys to be removed.*

*No. 341 (first publication).*—The Coast Inspector, Shanghai, has given Notice No. 689, dated the 22nd October 1919, that on or about the 15th November 1919 the buoyage of the Langshan Crossing and the channel southward of the Langshan Flats to Plover Point, Yangtze river, will be discontinued.

The abandonment of this channel is consequent on the continued rapid shoaling of the Langshan Crossing, which now has only a depth of 14 feet at low water of Spring Tides.

The following buoys will be removed :—

North Bank Buoy.  
 Langshan Buoy.  
 Vine Point Lower Buoy.  
 Waterman Bank Buoy.

Vine Point Buoy.  
 Waterman Bank Upper Buoy.  
 Lower Crossing Buoy.

So soon as the above buoys have been removed the Tungchow Channel will be the only officially buoyed fairway between Plover Point and Vine Point.



GULF OF ADEN.

*Port of Aden—Preliminary caution with regard to an oil pipe line viaduct.*

*No. 342 (first publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 76 M. of 1919), are republished:—*

*Former Admiralty Notice.—No. 125 of 1919. (This office No. 364 of 1918.)*

*Position.—Flint Island.*

*Lat. 12° 47½' N.*

*Long. 44° 59½' E.*

*Details.—It is hereby notified that it is intended shortly to commence work on the construction of an oil pipe line in the immediate vicinity of Flint Island. Whilst the work is in progress, all traffic through the channel between the Flint Island and the main land will be prohibited.*

*Note.—Further notice will be given of the exact date when the channel will be blocked.*

*Remarks.—Boats employed on this work will carry a red flag by day and a red lamp by night.*

*Tugs and launches are to reduce speed when passing and are not to approach these vessels.*

*Charts affected.—No. 3660, Aden Harbour.*

*" 7, Aden Harbour and approaches.*

*Publication.—Red Sea and Gulf of Aden Pilot, 1909, pages 405, 407.*

*Authority.—Commander-in-Chief, East Indies, dated 5th November 1919.*

BAY OF BENGAL—MADRAS COAST.

*Madras harbour—Derelict barquentine "Hyastan" drifted ashore south of.*

*No. 343 (first publication).—*

*Former Notice.—No. 332 of 1919.*

*Subject.—The derelict barquentine "Hyastan" was towed to Madras by the steamer "Clan Ranald" and afterwards drifted ashore south of the harbour.*

*Authority.—Presidency Port Officer, Madras, telegram dated 29th November 1919.*

*The 24th November 1919.*

BAY OF BENGAL—INDIA.

*Madras harbour, southern breakwater—Temporary light removed.*

*No. 333 (second publication).—*

*Former Notice.—No. 377 of 1916.*

*Subject.—The temporary fixed red light on the north arm of the southern breakwater has been removed and will not be replaced till about 1st January 1920 or thereabouts.*

*Position.—Lat. 13° 06' N., long. 80° 18½' E.*

*Charts affected.—No. 575, Madras to Ramapatnam, with plan.*

*" 71, Madras to Calimere Point.*



*Publications.*—List of Lights, Part VI, 1919, No. 562.  
Bay of Bengal Pilot, 1910, page 218. Revised Supplement (2), 1917.

*Authority.*—Madras Notice No. 27(a) of 1919.

### INDIA, WEST.

#### TRAVANCORE COAST, KOLACHEL.

*Patna rock red buoy—Replaced in position.*

No. 334 (*second publication*).—With reference to Notice to Mariners No. 188 of 1919 issued by this office, the Principal Port Officer, Travancore, Alleppey, has given further Notice, dated the 17th September 1919, that the Patna rock red buoy has been replaced in position.

### INDIA, WEST.

#### TRAVANCORE COAST.

*Entrance to Quilon anchorage—Buoys replaced in position.*

No. 335 (*second publication*).—With reference to this office Notice to Mariners No. 187 of 1919, the Principal Port Officer, Travancore, Alleppey, has given further Notice, dated the 27th October 1919, that the buoys marking the entrance to the Inner anchorage at Quilon have been replaced and their position is as follows:—

Red buoy bears from Tangacherry lighthouse S. E. distance about 8½ cables.

Black buoy bears from Tangacherry lighthouse S. E. † S. about 11½ cables.

The attention of mariners is drawn to the note appearing on the chart of the Quilon Road, Sheet XII, West Coast of India, with reference to these buoys.

*Note.*—The flagstaff and Messrs. Harrison and Crossfield tall red chimney in line leads into the Anchorage, clear of both reefs.

### AFRICA, EAST COAST—PORT MOMBASSA.

(1) *Port Kilindini—Alteration to beacon.*

(2) *Port Tudor—Beacon established.*

(3) *Ras Serani—Wreck southward of—no longer conspicuous.*

No. 336 (*second publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 74M. of 1919), are republished:—

(1) *Position.*—Lat. 4° 4' 7" S.

Long. 39° 39' 9" E.

*Details.*—The iron black tripod beacon with a spherical top mark, marking the north-west end of Kilindini reefs has been replaced by a white concrete beacon.

(2) *Position of Port Tudor.*—Lat. 4° 14' S.

Long. 39° 40½' E.

*Details.*—An iron tripod beacon has been established on the north edge of the easterly reef running out from Kwamawana Ima.



(3) *Position*.—Lat.  $4^{\circ} 4' 24''$  S.

Long.  $39^{\circ} 41' 20''$  E.

*Details*.—The wreck of SS. "Ahmadi" situated at about  $1\frac{1}{4}$  cables south-eastward of the flashing white light on Ras Serani, although still readily visible, is no longer conspicuous.

*Charts affected*.—No. 666, Port Mombassa.

" 664, Zanzibar to Milindi.

*Publication*.—East Coast of Africa Pilot, 1915, pages 471, 473.

*Authority*.—Commander-in-Chief, East Indies Station, dated 22nd October 1919.

#### PERSIAN GULF.

*Ras al Mufaf*.—Derelict reported south-eastward of.

No. 337 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 75M. of 1919), are republished:—

*Details*.—The Master of SS. "War Loch" states in his arrival report that he passed a water-logged Dhow on the 25th October 1919 in the following position.

*Position*.—Lat.  $27^{\circ} 33'$  N.

Long.  $51^{\circ} 50'$  E.

*Caution*.—Mariners are hereby warned accordingly.

*Charts affected*.—No. 2837 b), Persian Gulf, Western Sheet.

" 748(b), Indian Ocean, Northern Portion.

*Authority*.—Officiating Port Officer, Bombay, dated 7th November 1919.

The 19th November 1919.

#### BAY OF BENGAL.

##### MADRAS COAST.

*Caution*.—Off Baruva—Report of a derelict Barque "Hyastan".

No. 332 (third publication)—

*Subject*.—On the 17th November 1919 the Barque "Hyastan" water-logged and dismasted, was abandoned 100 miles south-east of Baruva. The current was setting south and west.

*Caution*.—Mariners are hereby warned.

*Charts affected*.—No. 1424, Bimlipatam to Gopalpore.

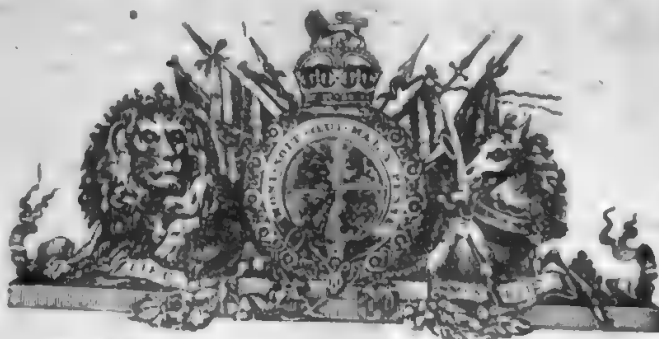
" 829, Cocanada to Bassein river.

*Authority*.—The Master of the Barque "Hyastan" telegram dated Baruva, the 19th November 1919.

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 17, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,

*Secy. to the Govt. of Bengal.*

CALCUTTA, the 8th December 1919.

#### JAPAN—GULF OF TOKYO.

*Tsurugi Zaki—Shoal reported south-eastward of.*

No. 344 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1801 of 1919), are republished :—

*Position.*—At a distance of about  $11\frac{1}{2}$  cables south-eastward from Tsurugi zaki lighthouse, close north-westward of the 8-fathom shoal in that locality.

Lat.  $35^{\circ} 08\frac{1}{2}'$  N., long.  $139^{\circ} 42'$  E.

*Details.*—A shoal with depths of less than 8 fathoms is reported to exist in the above position, and a note "*(Less water repd. 1919)*" is to be inserted against it on the charts.

*Charts affected.*—No. 2657, Gulf of Tokyo or Yedo.

.. 953, Omai saki to Tsurugi.

*Publication.*—Japan Pilot, 1914, page 194; Revised Supplement (2), 1919.

*Authority.*—Tokyo Notice No. 221 of 1919. (*H. 5855/19.*)

#### TASMANIA, NORTH COAST.

*Emu Bay—Amendments to Charts.*

No. 345 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1802 of 1919), are republished :—

*Position.*—Post office, Burnie, lat.  $41^{\circ} 03'$  S., long.  $145^{\circ} 56\frac{1}{2}'$  E.

*Details.*—The accompanying reproduction of a portion of plan of Emu bay on chart No. 3717 shows certain necessary amendments to this plan, embodying the latest information received and comprises the following :—

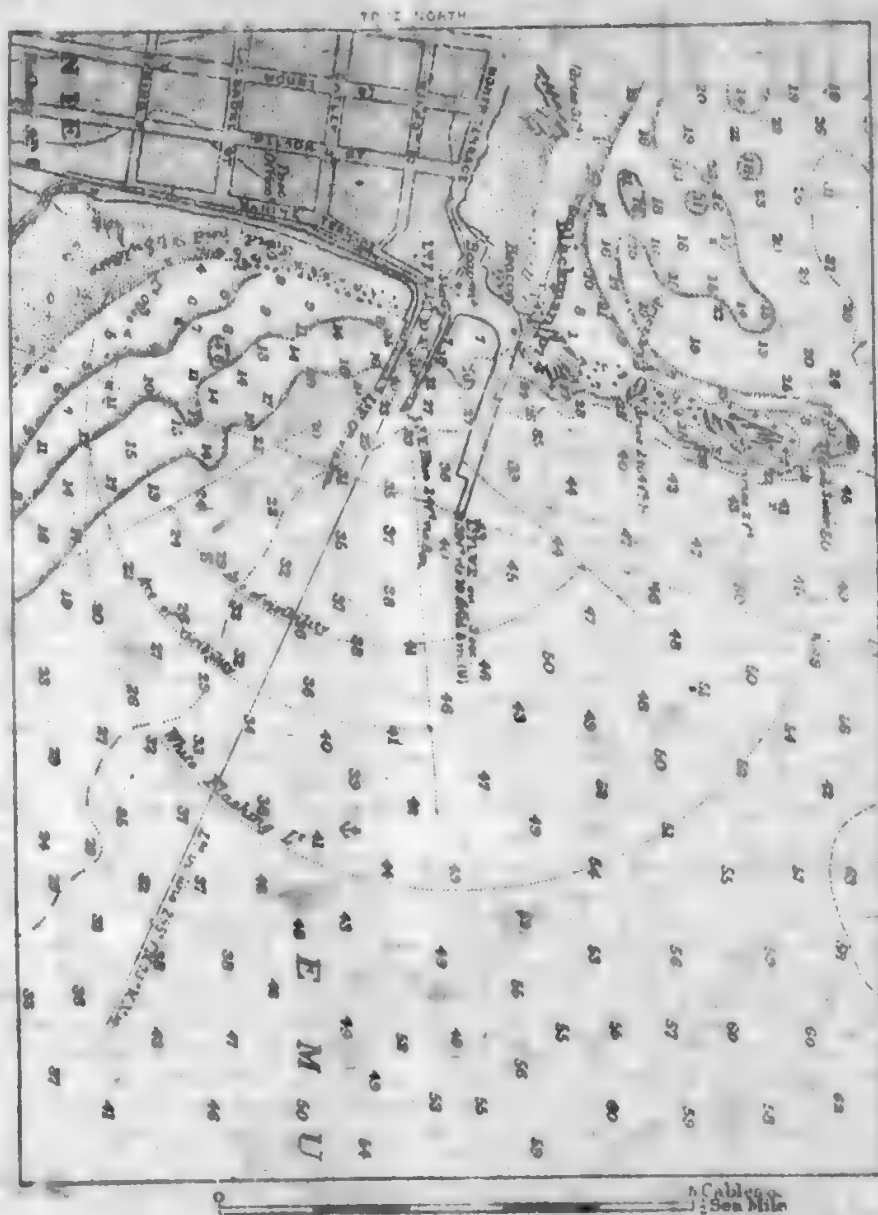
- (a) Position of new breakwater and light recently established with sectors.
- (b) Alterations to lights on pier and old breakwater.
- (c) Position of leading lights recently established.



*Charts affected.*—No. 3717. Plan of Emu Bay.  
 .. 1695*b*. Bass strait—western sheet.  
 .. 1079. Tasmania.

*Publications.*—List of Lights, Part VI, 1919: Nos. 2796, 2797 and 2798.  
 Australia Pilot, Vol. II, 1918, page 281.

*Authority.*—Department of Trade and Customs, Melbourne.  
 (H. 6305/19.)



H.M. SURVEYING SHIP "FANTOME" 1908.

Port Office } Lat. 41° 3' 0" S., Long. 146° 56' 45" E. (approx.)

H.W.F. & C.X. 0' Springs rise 11 feet, Neaps rise 8 feet. Neaps range 6 feet (approximate)

Reproduction of Portions of Chart No. 3717.

#### SOUTH AUSTRALIA—ST. VINCENT GULF.

*Port Adelaide River Approach—Alterations in Lights on Light-Buoys.*

No. 346 (first publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1818 of 1919), are republished:—

(1) *Position.*—Marking the 4-fathom patch.

Lat. 34° 48' S., long. 138° 25' E.



*New abridged description.*—Lt. Fl., Red.

*Alteration.*—The occulting red light on this light-buoy has been replaced by a *flashing red light every four seconds.*

(2) *Position.*—Marking outer end of entrance channel.

Lat.  $34^{\circ} 47\frac{1}{2}'$  S., long.  $138^{\circ} 26\frac{1}{2}'$  E.

*New abridged description.*—Lt. Fl., Gn.

*Alteration.*—The fixed green light on this light-buoy has been replaced by a *flashing green light every four seconds.*

(3) *Position.*—Marking south side of entrance channel.

Lat.  $34^{\circ} 47\frac{1}{2}'$  S., long.  $138^{\circ} 27\frac{1}{2}'$  E.

*New abridged description.*—Lt. Fl.

*Alteration.*—The occulting white light on this light-buoy has been replaced by a *flashing white light every four seconds.*

(4) *Position.*—On north side of channel, marking bend in channel.

Lat.  $34^{\circ} 47\frac{1}{2}'$  S., long.  $138^{\circ} 27\frac{1}{2}'$  E.

*New abridged description.*—Lt. Fl., Gn.

*Alteration.*—The fixed green light on light-buoy No. O G has been replaced by a *flashing green light every two seconds.*

*Charts affected.*—No. 1750, Port Adelaide.

„ 2389, St. Vincent and Spencer Gulfs, with plan.

*Publication.*—Australia Pilot, Vol. I, 1918, pages 295 and 302.

*Authority.*—South Australia Notice No. 3 of 1919. (H. 6824/19.)

#### PERSIAN GULF.

##### *Shatt al Arab Bar—Prohibited Anchorage.*

*No. 347 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1825 of 1919), are republished :—

*Former Notice.*—No. 1705 of 1919. (This office No. 186 of 1919.)

*Position.*—Shatt al Arab light-vessel, lat.  $29^{\circ} 44\frac{1}{2}'$  N., long.  $48^{\circ} 48\frac{1}{2}'$  E.

*Details.*—Anchorage is prohibited westward of a line drawn  $126^{\circ}$  (S.  $56^{\circ}$  E. *Mag.*) from the Fairway light-buoy, and westward of a line drawn  $340^{\circ}$  (N.  $22^{\circ}$  W. *Mag.*) from the Shatt al Arab light-vessel.

*Remarks.*—A note to the above effect is to be placed on the charts.

*Variation.*— $2^{\circ}$  E.

*Chart affected.*—No. 1235, Mouth of the Euphrates.

*Publication.*—Persian Gulf Pilot, 1915, page 281.

*Authority.*—The Port Officer, Basrah. (H. 7171/19.)

#### NEW ZEALAND—NORTH ISLAND, WEST COAST.

##### *Manukau Harbour Approach—Extension of Bank and Decreased Depths in Main Channel.*

*No. 348 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1827 of 1919), are republished :—

*Position.*—South Head lighthouse, lat.  $37^{\circ} 03\frac{1}{2}'$  S., long.  $174^{\circ} 32\frac{1}{2}'$  E.

*Details.*—The north-west bank, indicated by heavy breakers, situated at the bar in the main channel at a distance of about  $3\frac{1}{2}$  miles south-westward from South Head lighthouse, has extended considerably to the south-east, and there is now a depth of only 16 feet in the main channel.



*Remarks.*—The note "*Bank has extended considerably to the S. E. (1919)*" is to be placed against this bank on the charts, and the note with regard to the main channel amended to read "*The main channel has now (1919) a depth of only 16 feet.*"

*Charts affected.*—No. 2726, Manukau harbour.  
 .. 2543, Maungapui bluff to Manukau harbour.  
 .. 2535, Manukau harbour to Cape Egmont.

*Publications.*—New Zealand Pilot, 1908, page 215.  
 New Zealand Pilot, 1919 (*in press*), pages 67, 70.

*Authority.*—Wellington Notice No. 31 of 1919. (*H. 6064-19.*)

#### EASTERN ARCHIPELAGO—GEELVINK BAY.

*Jappen—Existence of a reef.*

*No. 349 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1838 of 1919), are republished:—

*Position.*—At a distance of about 5 miles westward from Barnsi point.

Lat.  $1^{\circ} 50' 30''$  S., long.  $136^{\circ} 41' 00''$  E.

*Depth.*—2 fathoms (sand and coral).

*Remarks.*—The reef is of small extent and is not marked by discoloration.

*Chart affected.*—No. 942b, Eastern Archipelago, eastern portion—sheet 2.

*Publication.*—Pacific Islands Pilot, Vol. I, 1908, page 234.

*Authority.*—Hague Notice No. 1916 of 1919. (*H. 7398/19.*)

*The 1st December 1919.*

#### RED SEA—GULF OF ADEN.

*Jibuti Bay—Buoys established.*

*No. 338 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1775 of 1919), are republished:—

(a) *Position (approximate).*—At a distance of  $15\frac{1}{2}$  cables,  $308^{\circ}$  (N.  $51^{\circ}$  W. *Mag.*), from Residency flagstaff.

Residency flagstaff, lat.  $11^{\circ} 35\frac{1}{2}'$  N., long.  $43^{\circ} 9\frac{1}{2}'$  E.

*Description.*—A red conical buoy.

(b) *Position (approximate).*—At a distance of  $10\frac{1}{10}$  cables,  $288^{\circ}$  (N.  $71^{\circ}$  W. *Mag.*), from Residency flagstaff.

*Description.*—A red conical buoy.

*Remarks.*—A note "*Position approximate*" is to be placed on the charts against these buoys.

*Variation.*— $1^{\circ}$  W.

*Chart affected.*—No. 253, Plan of Jibuti bay.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 427;  
 Revised Supplement (3), 1917.

*Authority.*—Paris Notice No. 677 of 1919. (*H. 3109/19.*)



INDIAN OCEAN—MALDIVÉ ISLANDS.

*Thavandiffulu Atoll—Existence of a Wreck.*

No. 339 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1791 of 1919), are republished:—

*Position.*—At a distance of about three-quarters of a mile westward from Kanduguri.

Lat.  $7^{\circ} 04' 40''$  N., long.  $72^{\circ} 47' 15''$  E.

*Description.*—Wreck of the steamer *Oceano*, with hull, funnel and two masts showing above water.

*Charts affected.*—No. 66a, Maldivé islands—northern sheet.  
 „ 827, Vengurla to Cape Comorin,  
 „ 1012, Arabian sea.

*Publication.*—W. C. India Pilot, 1909, page 374.

*Authority.*—Hydrographic Department. (H. 6303/19)

PERSIAN GULF.

*Shatt Al Arab Entrance—Information with regard to Night Tidal Signals.*

No. 340 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1798 of 1919), are republished:—

*Position.*—Tidal Semaphore, lat.  $29^{\circ} 50\frac{1}{2}'$  N., long.  $48^{\circ} 42\frac{1}{2}'$  E.

*Details.*—The following additional night signals are now shown:—

(a) One red over one white light—11 feet.

(b) A green light exhibited below any of the other light signals denotes the immediate half foot and will be shown as long as there are six or more inches above the even foot.

*Remarks.*—All lights are now 11 feet apart instead of 6 feet as formerly.

*Publication.*—Persian Gulf Pilot, 1915, page 281; Supplement No. 4, 1919.

*Authority.*—The Port Officer, Basrah. (H. 6433/19.)

CHINA SEA—SHANGHAI DISTRICT. YANGTZE RIVER.

*Langshan Crossing to be abandoned; Buoys to be removed.*

No. 341 (second publication).—The Coast Inspector, Shanghai, has given Notice No. 689, dated the 22nd October 1919, that on or about the 15th November 1919 the buoyage of the Langshan Crossing and the channel southward of the Langshan Flats to Plover Point, Yangtze river, will be discontinued.

The abandonment of this channel is consequent on the continued rapid shoaling of the Langshan Crossing, which now has only a depth of 14 feet at low water of Spring Tides.

The following buoys will be removed:—

North Bank Buoy.  
 Langshan Buoy.  
 Vine Point Lower Buoy.  
 Waterman Bank Buoy.

Vine Point Buoy.  
 Waterman Bank Upper Buoy.  
 Lower Crossing Buoy.

So soon as the above buoys have been removed the Tungchow Channel will be the only officially buoyed fairway between Plover Point and Vine Point.



### GULF OF ADEN.

*Port of Aden—Preliminary caution with regard to an oil pipe line viaduct.*

No. 342 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 76 M. of 1919), are republished:—

*Former Admiralty Notice.*—No. 125 of 1919. (*This office No. 364 of 1918.*)

*Position.*—Flint Island.

Lat.  $12^{\circ} 47\frac{1}{2}'$  N.

Long.  $44^{\circ} 59\frac{1}{2}'$  E.

*Details.*—It is hereby notified that it is intended shortly to commence work on the construction of an oil pipe line in the immediate vicinity of Flint Island. Whilst the work is in progress, all traffic through the channel between the Flint Island and the main land will be prohibited.

*Note.*—Further notice will be given of the exact date when the channel will be blocked.

*Remarks.*—Boats employed on this work will carry a red flag by day and a red lamp by night.

Tugs and launches are to reduce speed when passing and are not to approach these vessels.

*Charts affected.*—No. 8660, Aden Harbour.

„ 5, Aden Harbour and approaches.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, pages 405, 407.

*Authority.*—Commander-in-Chief, East Indies, dated 5th November 1919.

### BAY OF BENGAL—MADRAS COAST.

*Madras harbour—Derelict barkentine "Hyastan" drifted ashore south of.*

No. 343 (second publication).—

*Former Notice.*—No. 332 of 1919.

*Subject.*—The derelict barkentine "Hyastan" was towed to Madras by the steamer "Clan Ranald" and afterwards drifted ashore south of the harbour.

*Authority.*—Presidency Port Officer, Madras, telegram dated 29th November 1919.

*The 24th November 1919.*

### BAY OF BENGAL—INDIA.

*Madras harbour, southern breakwater—Temporary light removed.*

No. 333 (third publication).—

*Former Notice.*—No. 377 of 1916.

*Subject.*—The temporary fixed red light on the north arm of the southern breakwater has been removed and will not be replaced till about 1st January 1920 or thereabouts.

*Position.*—Lat.  $13^{\circ} 06'$  N., long.  $80^{\circ} 18\frac{1}{2}'$  E.

*Charts affected.*—No. 575, Madras to Ramapatnam, with plan.

„ 71, Madras to Calimere Point.



*Publications.*—List of Lights, Part VI, 1919, No. 562.  
Bay of Bengal Pilot, 1910, page 218. Revised Supplement (2), 1917.

*Authority.*—Madras Notice No. 27(a) of 1919.

## INDIA, WEST.

### TRAVANCORE COAST, KOLACHEL.

*Patna rock red buoy—Replaced in position.*

No. 334 (*third publication*)—With reference to Notice to Mariners No. 188 of 1919 issued by this office, the Principal Port Officer, Travancore, Alleppey, has given further Notice, dated the 17th September 1919, that the Patna rock red buoy has been replaced in position.

## INDIA, WEST.

### TRAVANCORE COAST.

*Entrance to Quilon anchorage—Buoys replaced in position.*

No. 335 (*third publication*)—With reference to this office Notice to Mariners No. 187 of 1919, the Principal Port Officer, Travancore, Alleppey, has given further Notice, dated the 27th October 1919, that the buoys marking the entrance to the Inner anchorage at Quilon have been replaced and their position is as follows:—

Red buoy bears from Tangacherry lighthouse S. E. distance about 8½ cables.

Black buoy bears from Tangacherry lighthouse S. E. ½ S. about 11½ cables.

The attention of mariners is drawn to the note appearing on the chart of the Quilon Road, Sheet XII, West Coast of India, with reference to these buoys.

*Note.*—The flagstaff and Messrs. Harrison and Crosfield tall red chimney in line leads into the Anchorage, clear of both reefs.

## AFRICA, EAST COAST—PORT MOMBASSA.

(1) *Port Kilindini—Alteration to beacon.*

(2) *Port Tudor—Beacon established.*

(3) *Ras Serani—Wreck southward of—no longer conspicuous.*

No. 336 (*third publication*)—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 74M. of 1919), are republished:—

(1) *Position.*—Lat. 4° 4' 7" S.

Long. 39° 39' 9" E.

*Details.*—The iron black tripod beacon with a spherical top mark, marking the north-west end of Kilindini reefs has been replaced by a white concrete beacon.

(2) *Position of Port Tudor.*—Lat. 4° 14' S.

Long. 39° 40½' E.

*Details.*—An iron tripod beacon has been established on the north edge of the easterly reef running out from Kwamawana Ina.



(3) *Position*.—Lat.  $4^{\circ} 4' 24''$  S.

Long.  $39^{\circ} 41' 20''$  E.

*Details*.—The wreck of SS. "Ahmadi" situated at about  $1\frac{1}{2}$  cables south-eastward of the flashing white light on Ras Serani, although still readily visible, is no longer conspicuous.

*Charts affected*.—No. 666, Port Mombassa.

„ 664, Zanzibar to Milindi.

*Publication*.—East Coast of Africa Pilot, 1915, pages 471, 473.

*Authority*.—Commander-in-Chief, East Indies Station, dated 22nd October 1919.

#### PERSIAN GULF.

*Ras al Mutaf*.—Derelict reported south-eastward of.

No. 337 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 75M. of 1919), are republished:—

*Details*.—The Master of SS. "War Loch" states in his arrival report that he passed a water-logged Dhow on the 25th October 1919 in the following position.

*Position*.—Lat.  $27^{\circ} 33'$  N.

Long.  $51^{\circ} 50'$  E.

*Caution*.—Mariners are hereby warned accordingly.

*Charts affected*.—No. 2837(b), Persian Gulf, Western Sheet.

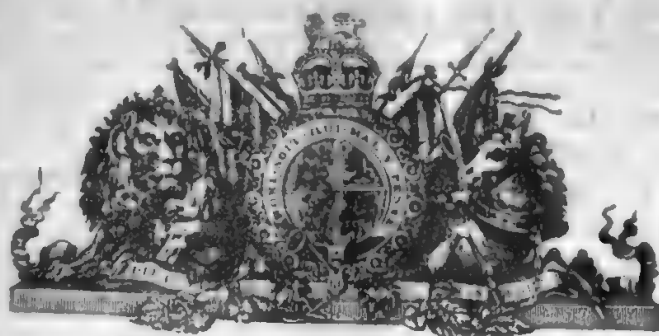
„ 748(b), Indian Ocean, Northern Portion.

*Authority*.—Officiating Port Officer, Bombay, dated 7th November 1919.

W. K. THYNE, COMDR., R.I.M.,

Deputy Port Officer of Calcutta.





# The Calcutta Gazette

WEDNESDAY, DECEMBER 24, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,  
Secy. to the Govt. of Bengal.

CALCUTTA, the 12th December 1919.

#### INDIA—WEST COAST.

##### *Hangarkota—Derelict South-Eastward of.*

No. 350 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 77M. of 1919), are republished:—

*Details.*—Information, dated 14th November 1919, has been received from the Port-Officer, Mangalore, that the Master of SS. *Juba* reports a submerged "kotia" awash with anchor down, abandoned in the following position and appears to be drifting in a northwardly direction.

*Position.*—Lat.  $13^{\circ} 26' 20''$  N.  
Long.  $74^{\circ} 37' 50''$  E.

*Caution.*—Mariners are hereby warned accordingly.

*Charts temporarily affected.*—No. 745, Netrani to Cape Comorin.  
" 827, Vengurla to Cape Comorin.  
" 748b, Indian ocean, northern portion.

*Authority.*—Officiating Port Officer, Bombay, dated 15th November 1919.

#### INDIA—WEST COAST.

##### *Hosdrug Fort—Derelict reported Westward of.*

No. 351 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 78M. of 1919), are republished:—

*Details.*—Telegraphic information, dated 20th November 1919, has been received from the Master of SS. *Risaldar* reporting partly sunken derelict in the following position.



*Position.*—Lat.  $12^{\circ} 18\frac{1}{2}'$  N.  
Long.  $74^{\circ} 52'$  E.

*Caution.*—This derelict constitutes a danger to navigation, being in the track of shipping.

*Charts temporarily affected.*—No. 746. West coast of India; from Mulki to Mt. Dilli.  
„ 827, Vengurla to Cape Comorin.  
„ 748b, Indian ocean, northern portion.

*Authority.*—Officiating Port Officer, Bombay, dated 25th November 1919.

#### BAY OF BENGAL.—CHITTAGONG COAST.

*Chittagong (Karnafuli) river—Alterations of buoys.*

*No. 352-1 (first publication).*—

*Subject.*—The following alterations of buoys are made over the Guptakhali Crossing:—

(I) Guptakhali buoy has been moved  $307^{\circ} 20'$  (N.  $53^{\circ} 15'$  W. Mag.), 320 feet.

(II) Middle Active Spit buoy has been moved  $304^{\circ} 5'$  (N.  $56^{\circ} 30'$  W. Mag.), 290 feet.

*Variation.*— $0^{\circ} 35'$  E.

*Chart affected.*—No. 84, Chittagong (Karnafuli) river.

*Publication.*—Bay of Bengal Pilot, 1910, page 323; Revised Supplement (2) 1917.

*Authority.*—Port Officer, Chittagong, Notice dated 5th December 1919.

*The 8th December 1919.*

#### JAPAN—GULF OF TOKYO.

*Tsurugi Zaki—Shoal reported south-eastward of.*

*No. 344 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1801 of 1919), are republished:—

*Position.*—At a distance of about  $11\frac{1}{2}$  cables south-eastward from Tsurugi zaki lighthouse, close north-westward of the 8-fathom shoal in that locality.

Lat.  $35^{\circ} 08\frac{1}{2}'$  N., long.  $139^{\circ} 42'$  E.

*Details.*—A shoal with depths of less than 8 fathoms is reported to exist in the above position, and a note “(Less water repd. 1919)” is to be inserted against it on the charts.

*Charts affected.*—No. 2657, Gulf of Tokyo or Yedo.  
„ 953, Omai saki to Tsurugi.

*Publication.*—Japan Pilot, 1914, page 194; Revised Supplement (2), 1919.

*Authority.*—Tokyo Notice No. 221 of 1919. (H. 5855/19.)

#### TASMANIA, NORTH COAST.

*Emu Bay—Amendments to Charts.*

*No. 345 (second publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1802 of 1919), are republished:—

*Position.*—Post office, Burnie, lat.  $41^{\circ} 03'$  S., long.  $145^{\circ} 56\frac{1}{2}'$  E.



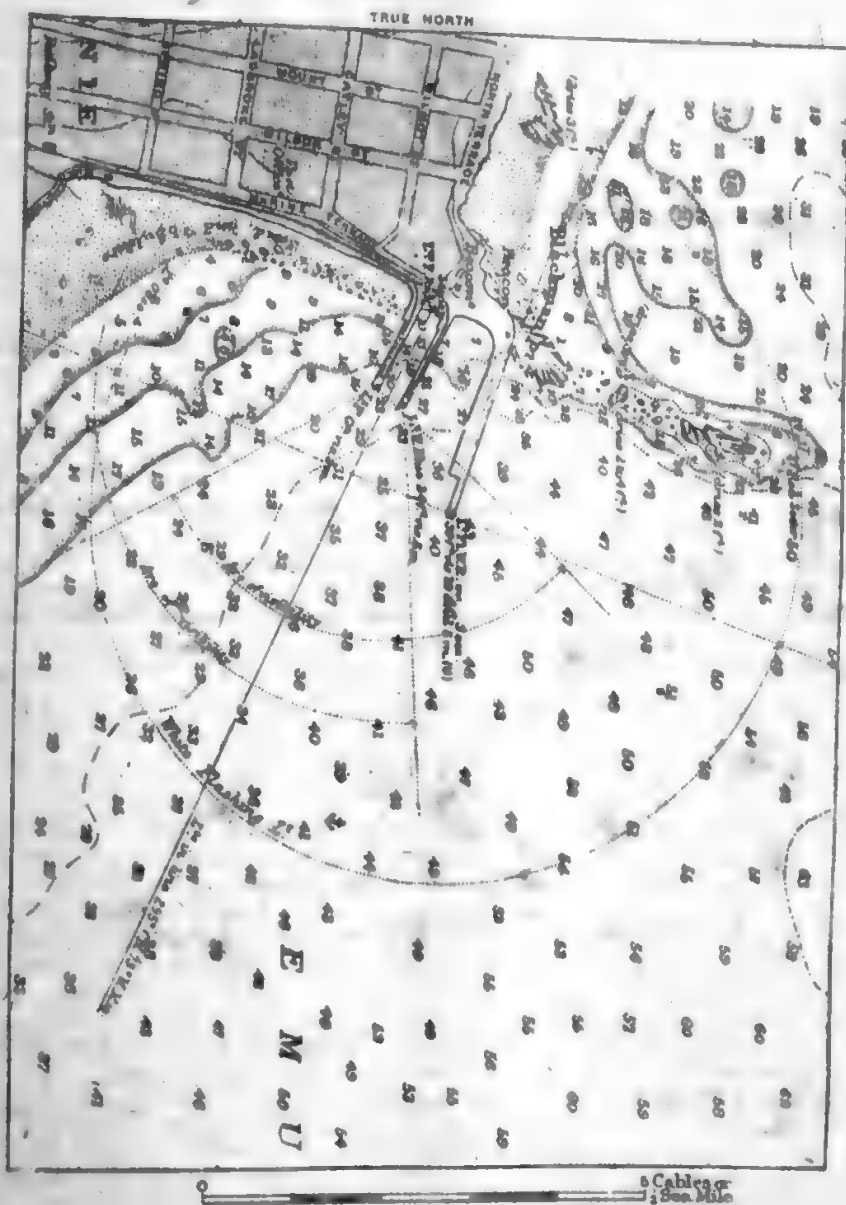
*Details.*—The accompanying reproduction of a portion of plan of Emu bay on chart No. 3717 shows certain necessary amendments to this plan, embodying the latest information received and comprises the following:—

- (a) Position of new breakwater and light recently established with sectors.
- (b) Alterations to lights on pier and old breakwater.
- (c) Position of leading lights recently established.

*Charts affected.*—No. 3717, Plan of Emu bay.  
 „ 1695b, Bass strait—western sheet.  
 „ 1079, Tasmania.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2796, 2797 and 2798  
 Australia Pilot, Vol. II, 1918, page 281.

*Authority.*—Department of Trade and Customs, Melbourne.  
 (H. 6305/19.)



H.M. SURVEYING SHIP "PANTOME" 1908.  
 Port Office } Lat. 41° 3' 0" S., Long. 146° 56' 45" E. (approx.)  
 (Barrow)  
 H.W.F. & C. XI° 97' Springs rise 11 feet, Neaps rise 8 feet, Neaps range 6 feet.  
 (approximate)

Reproduction of Portions of Chart No. 3717.



## SOUTH AUSTRALIA—ST. VINCENT GULF.

*Port Adelaide River Approach—Alterations in lights on Light-Buoys.*

No. 346 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1818 of 1919), are republished:—

- (1) *Position*.—Marking the 4-fathom patch

Lat.  $34^{\circ} 48\frac{1}{4}'$  S., long.  $138^{\circ} 25\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl., Red.

*Alteration*.—The occulting red light on this light-buoy has been replaced by a *flashing red light every four seconds*.

- (2) *Position*.—Marking outer end of entrance channel.

Lat.  $34^{\circ} 47\frac{1}{4}'$  S., long.  $138^{\circ} 26\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl., Gn.

*Alteration*.—The fixed green light on this light-buoy has been replaced by a *flashing green light every four seconds*.

- (3) *Position*.—Marking south side of entrance channel.

Lat.  $34^{\circ} 47\frac{1}{4}'$  S., long.  $138^{\circ} 27\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl.

*Alteration*.—The occulting white light on this light-buoy has been replaced by a *flashing white light every four seconds*.

- (4) *Position*.—On north side of channel, marking bend in channel.

Lat.  $34^{\circ} 47\frac{1}{4}'$  S., long.  $138^{\circ} 27\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl., Gn.

*Alteration*.—The fixed green light on light-buoy No. O G has been replaced by a *flashing green light every two seconds*.

*Charts affected*.—No. 1750, Port Adelaide.

„ 2389, St. Vincent and Spencer Gulfs, with plan.

*Publication*.—Australia Pilot, Vol. I, 1918, pages 295 and 302.

*Authority*.—South Australia Notice No. 3 of 1919. (H. 6824/19.)

## PERSIAN GULF.

*Shatt al Arab Bar—Prohibited Anchorage.*

No. 347 (second publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1825 of 1919), are republished:—

*Former Notice*.—No. 1705 of 1919. (This office No. 186 of 1919.)

*Position*.—Shatt al Arab light-vessel, lat.  $29^{\circ} 44\frac{1}{4}'$  N., long.  $48^{\circ} 48\frac{1}{4}'$  E.

*Details*.—Anchorage is prohibited westward of a line drawn  $126^{\circ}$  (S.  $56^{\circ}$  E. Mag.) from the Fairway light-buoy, and westward of a line drawn  $340^{\circ}$  (N.  $22^{\circ}$  W. Mag.) from the Shatt al Arab light-vessel.

*Remarks*.—A note to the above effect is to be placed on the charts.

*Variation*.— $2^{\circ}$  E.

*Chart affected*.—No. 1235, Mouth of the Euphrates.

*Publication*.—Persian Gulf Pilot, 1915, page 281.

*Authority*.—The Port Officer, Basrah. (H. 7171/19.)



NEW ZEALAND—NORTH ISLAND. WEST COAST.

*Manukau Harbour Approach—Extension of Bank and Decreased Depths in Main Channel.*

No. 348 (second publication).—The following particulars, etc. relative to the above, issued by the British Admiralty (No. 1827 of 1919), are republished:—

*Position.*—South Head lighthouse, lat.  $37^{\circ} 03\frac{1}{2}'$  S., long.  $174^{\circ} 32\frac{1}{2}'$  E.

*Details.*—The north-west bank, indicated by heavy breakers, situated at the bar in the main channel at a distance of about  $3\frac{1}{2}$  miles south-westward from South Head lighthouse, has extended considerably to the south-east, and there is now a depth of only 16 feet in the main channel.

*Remarks.*—The note "*Bank has extended considerably to the S. E. (1919)*" is to be placed against this bank on the charts, and the note with regard to the main channel amended to read "*The main channel has now (1919) a depth of only 16 feet.*"

*Charts affected.*—No. 2726, Manukau harbour.

.. 2543, Maunganui bluff to Manukau harbour.

.. 2535, Manukau harbour to Cape Egmont.

*Publications.*—New Zealand Pilot, 1908, page 215.

New Zealand Pilot, 1919 (*in press*), pages 67, 70.

*Authority.*—Wellington Notice No. 31 of 1919. (*H. 6064/19.*)

EASTERN ARCHIPELAGO—GEELVINK BAY.

*Jappen—Existence of a reef.*

No. 349 (second publication).—The following particulars, etc. relative to the above, issued by the British Admiralty (No. 1838 of 1919), are republished:—

*Position.*—At a distance of about 5 miles westward from Barusi point.

Lat.  $1^{\circ} 50' 30''$  S., long.  $136^{\circ} 41' 00''$  E.

*Depth.*—2 fathoms (sand and coral).

*Remarks.*—The reef is of small extent and is not marked by discoloration.

*Chart affected.*—No. 942b, Eastern Archipelago, eastern portion—sheet 2.

*Publication.*—Pacific Islands Pilot, Vol. I, 1908, page 234.

*Authority.*—Hague Notice No. 1916 of 1919. (*H. 7398/19.*)

The 1st December 1919.

RED SEA—GULF OF ADEN.

*Jibuti Bay—Buoys established.*

No. 338 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1775 of 1919), are republished:—

(a) *Position (approximate).*—At a distance of  $15\frac{1}{2}$  cables,  $308^{\circ}$  (N.  $51^{\circ}$  W. Mag.), from Residency flagstaff.

Residency flagstaff, lat.  $11^{\circ} 35\frac{1}{2}'$  N., long.  $43^{\circ} 9\frac{1}{2}'$  E.

*Description.*—A red conical buoy.



(b) *Position (approximate).*—At a distance of 10<sup>3</sup>/<sub>10</sub> cables, 288° (N. 71° W. *Mag.*), from Residency flag-staff.

*Description.*—A red conical buoy.

*Remarks.*—A note "*Position approximate*" is to be placed on the charts against these buoys.

*Variation.*—1° W.

*Chart affected.*—No. 253, Plan of Jibuti bay.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, page 427; Revised Supplement (3), 1917.

*Authority.*—Paris Notice No. 677 of 1919. (*H.* 3109/19.)

#### INDIAN OCEAN—MALDIVE ISLANDS.

##### *Ihavandiffulu Atoll—Existence of a Wreck.*

*No. 339 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1791 of 1919), are republished:—

*Position.*—At a distance of about three-quarters of a mile westward from Kanduguri.

Lat. 7° 04' 40" N., long. 72° 47' 15" E.

*Description.*—Wreck of the steamer *Oceano*, with hull, funnel and two masts showing above water.

*Charts affected.*—No. 66a, Maldive islands—northern sheet.  
 „ 827, Vengurla to Cape Comorin.  
 „ 1012, Arabian sea.

*Publication.*—W. C. India Pilot, 1909, page 374.

*Authority.*—Hydrographic Department. (*H.* 6303/19.)

#### PERSIAN GULF.

##### *Shatt Al Arab Entrance—Information with regard to Night Tidal Signals.*

*No. 340 (third publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1798 of 1919), are republished:—

*Position.*—Tidal Semaphore, lat. 29° 50½' N., long. 48° 42½' E.

*Details.*—The following additional night signals are now shown:—

(a) One red over one white light—11 feet.

(b) A green light exhibited below any of the other light signals denotes the immediate half foot and will be shown as long as there are six or more inches above the even foot.

*Remarks.*—All lights are now 11 feet apart instead of 6 feet as formerly.

*Publication.*—Persian Gulf Pilot, 1915, page 281; Supplement No. 4, 1919.

*Authority.*—The Port Officer, Basrah. (*H.* 6433/19.)



CHINA SEA—SHANGHAI DISTRICT, YANGTZE RIVER.

*Langshan Crossing to be abandoned; Buoys to be removed.*

No. 341 (third publication).—The Coast Inspector, Shanghai, has given Notice No. 689, dated the 22nd October 1919, that on or about the 15th November 1919 the buoyage of the Langshan Crossing and the channel southward of the Langshan Flats to Plover Point, Yangtze river, will be discontinued.

The abandonment of this channel is consequent on the continued rapid shoaling of the Langshan Crossing, which now has only a depth of 14 feet at low water of Spring Tides.

The following buoys will be removed :—

North Bank Buoy.	Vine Point Buoy.
Langshan Buoy.	Waterman Bank Upper Buoy.
Vine Point Lower Buoy.	Lower Crossing Buoy.
Waterman Bank Buoy.	

So soon as the above buoys have been removed the Tungchow Channel will be the only officially buoyed fairway between Plover Point and Vine Point.

GULF OF ADEN.

*Port of Aden—Preliminary caution with regard to an oil pipe line viaduct.*

No. 342 (third publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 76 M. of 1919), are republished :—

*Former Admiralty Notice.*—No. 125 of 1919. (This office No. 364 of 1918.)

*Position.*—Flint Island.

Lat.  $12^{\circ} 47\frac{1}{4}'$  N.

Long.  $44^{\circ} 59\frac{1}{4}'$  E.

*Details.*—It is hereby notified that it is intended shortly to commence work on the construction of an oil pipe line in the immediate vicinity of Flint Island. Whilst the work is in progress, all traffic through the channel between the Flint Island and the main land will be prohibited.

*Note.*—Further notice will be given of the exact date when the channel will be blocked.

*Remarks.*—Boats employed on this work will carry a red flag by day and a red lamp by night.

Tugs and launches are to reduce speed when passing and are not to approach these vessels.

*Charts affected.*—No. 3660, Aden Harbour.

7. Aden Harbour and approaches.

*Publication.*—Red Sea and Gulf of Aden Pilot, 1909, pages 405, 407.

*Authority.*—Commander-in-Chief, East Indies, dated 5th November 1919.



BAY OF BENGAL—MADRAS COAST.

*Madras harbour—Derelict barquentine "Hyastan" drifted ashore south of.*

*No. 343 (third publication).—*

*Former Notice.—No. 332 of 1919.*

*Subject.—*The derelict barquentine "Hyastan" was towed to Madras by the steamer "Clan Ranald" and afterwards drifted ashore south of the harbour.

*Authority.—*Presidency Port Officer, Madras, telegram dated 29th November 1919.

E. STOCKEN, CAPT., R.I.M.,  
*Port Officer of Calcutta.*





# The Calcutta Gazette

WEDNESDAY, DECEMBER 31, 1919.

## APPENDIX.

### NOTICES TO MARINERS.

THE following Notices are published for general information.

F. A. A. COWLEY,

Secy. to the Govt. of Bengal.

CALCUTTA, the 20th December 1919.

#### JAPAN—INLAND SEA.

##### *Shimonoseki Kaikyo—Existence of Wreck.*

No. 353 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1873 of 1919), are republished—

*Position (approximate).*—At a distance of  $2\frac{1}{2}$  cables,  $180^{\circ}$  (S.  $5^{\circ}$  W. *Mag.*), from Manaita iwa light.  
Lat.  $33^{\circ} 54\frac{1}{2}'$  N., long.  $130^{\circ} 54'$  E.

*Description.*—Sunken wreck of the SS. *Kisetsu Maru*, with mast and funnel showing above water.

*Remarks.*—The wreck is reported to be marked at night by a light; this light, however, is not to be inserted on the charts.

*Variation.*— $5^{\circ}$  W.

*Charts affected.*—No. 1578, Shimonoseki kaikyo.

.. 532, Approaches to Shimonoseki kaikyo

.. 127, Hirada kaikyo to Shimonoseki kaikyo.

*Authority.*—Tokyo Notice No. 280 of 1919. (H. 7475/19.)

#### NEW ZEALAND—NORTH ISLAND.

##### *Waikato River Entrance—Caution.*

No. 354 (*first publication*).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1876 of 1919), are republished:—

*Former Notice.*—No. 819 of 1918. (*This office No. 270 of 1918.*)

*Position.*—North head, lat.  $37^{\circ} 24'$  S., long.  $174^{\circ} 46\frac{1}{2}'$  E.



*Caution.*—The bar at the entrance to the Waikato river has again shifted to the northward and the channel is narrowing; in consequence a further alteration in the position of the white leading beacons, with black diamond centres, has been rendered necessary, and the former line of bearing has been changed. The leading line is frequently altered to meet the changes in the channel.

Mariners are warned accordingly.

*Publications.*—New Zealand Pilot, 1908, page 220; Supplement No. 3, 1917.

New Zealand Pilot, 1919 (*in press*), pages 75, 76.

*Authority.*—Wellington Notice No. 52 of 1919. (*H. 8032/19.*)

#### SUMATRA, WEST COAST—ENGANO.

##### *St. Mary Rock—Non-Existence of.*

*No. 355 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1877 of 1919), are republished:—

*Position.*—At a distance of about 7 miles southward from Kowabi point, Engano island.

Lat.  $5^{\circ} 36' 30''$  S., long.  $102^{\circ} 22' 40''$  E.

*Remarks.*—A recent examination in this vicinity has failed to reveal any trace of the rock which the *SS. St. Mary* reported to have struck in the year 1900. The rock is accordingly to be expunged from the charts.

*Charts affected.*—No. 2761, Chingkuk bay to the Strait of Sunda.  
.. 748b, Indian ocean—northern portion.

*Publication.*—China Sea Pilot, Vol. I, 1916, page 469.

*Authority.*—Hague Notice No. 2011 of 1919. (*H. 7501/19.*)

#### AUSTRALIA, SOUTH COAST—VICTORIA.

##### *Port Western—Lights established.*

*No. 356 (first publication).*—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1880 of 1919), are republished:—

##### 1. Round island:

*Position.*—On Round island, off the western extremity of Phillip island.

Lat.  $38^{\circ} 31' 16''$  S., long.  $145^{\circ} 06' 39''$  E.

*Abridged description.*—Lt. Gp. Fl. (2). *W. R.*

##### Characteristics:

*Character.*—A group flashing light with white and red sectors, showing two short flashes in quick succession, followed by an eclipse of seven seconds.

*Sectors.*—White from  $71^{\circ}$  (*N. 63^{\circ}* *E. Mag.*), through east, to  $213^{\circ}$  (*S. 25^{\circ}* *W. Mag.*);

Red over Black rock and McHaffie reef.

*Structure.*—A wooden structure.

*Remarks.*—Further details not stated.

##### 2. Tortoise head:

*Position.*—Lat.  $38^{\circ} 24' 40''$  S., long.  $145^{\circ} 16' 25''$  E.



*Abridged description.*—1st Fl.

*Characteristics:*

*Character.*—A *flashing white* light showing a short flash followed by an eclipse of *five seconds*.

*Remarks.*—The light is visible between the bearings  $59^{\circ}$  (N.  $51^{\circ}$  E. *Mag.*) and  $63^{\circ}$  (N.  $55^{\circ}$  E. *Mag.*). Further details are not stated.

*Caution.*—Vessels using this light to enter the western entrance to Port Western should be careful to keep within the full beam of the light to avoid the Middle bank to the northward and McHaffie reef to the southward.

*Variation.*— $8^{\circ}$  E.

*Charts affected.*—No. 1707, Port Western.

.. 1171, Port Phillip.

.. 1695b, Bass strait—western sheet.

.. 3169, Port Phillip to Gabo island.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2481a, 2485a. Australia Pilot, Vol. II, 1918, pages 155 and 156.

*Authority.*—Melbourne Notice No. 5 of 1919. (H. 6825/19.)

#### INDIA, WEST COAST.

*Kundapur—Wreckage reported South-westward of.*

No. 357 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 80M. of 1919), are republished:—

*Details.*—Information, dated 1st December 1919, has been received from G. S. O., Colombo, that the Master of SS. *Hydra* reports having passed sunken wreckage of a wooden vessel of medium size on the 28th November 1919 in the following position.

*Position.*—Lat.  $13^{\circ} 31' N.$   
Long.  $74^{\circ} 21\frac{1}{2}' E.$

*Caution.*—Mariners are hereby warned accordingly.

*Charts temporarily affected.*—No. 745, Netrani to Cape Comorin.  
.. 827, Vengurla to Cape Comorin.  
.. 748b, Indian ocean, northern portion.

*Authority.*—Resident Naval Officer, Bombay, dated 2nd December 1919.

#### INDIA, WEST COAST.

*St Mary Isles—Derelict reported South-westward of.*

No. 358 (*first publication*).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 81M. of 1919), are republished:—

*Date sighted.*—1st December 1919.

*Details.*—Telegraphic message, dated 2nd December 1919, has been received from the Master of SS. *Nankin* reporting having passed a derelict awash, apparently a dhow, in the following position.

*Position.*—Lat.  $13^{\circ} 15' N.$   
Long.  $74^{\circ} 05' E.$



*Caution.*—Mariners are hereby warned accordingly.

*Charts temporarily affected.*—No. 827, Vengurla to Cape Comorin.  
 „ 748b, Indian ocean, northern portion.

*Authority.*—The Director, Royal Indian Marine, Bombay, 3rd December 1919.

#### INDIA, WEST COAST.

*Kundapur*—Derelict reported North-westward of.

*No. 359 (first publication).*—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 82M. of 1919), are republished:—

*Date sighted.*—1st December 1919.

*Details.*—A derelict of a large native craft water-logged has been reported in the following position and appears to be drifting in an N. N. W. direction, 10 miles a day.

*Position.*—Lat.  $13^{\circ} 41' N.$   
 Long.  $74^{\circ} 07' E.$

*Caution.*—Mariners are hereby warned accordingly.

*Charts temporarily affected.*—No. 827, Vengurla to Cape Comorin.  
 „ 748b, Indian ocean, northern portion.

*Authority.*—The Port Officer, Bombay, dated 2nd December 1919.

#### AUSTRALIA. EAST COAST.

*Palm islands*—Uncharted shoal.

*No. 360 (first publication).*—The Portmaster, Brisbane, has given Notice (No. 3 of 1919) that the Commander of H.M.A.S. *Australia* reports that an uncharted shoal has been located between Falcon and Esk islands (Palm islands). A coral head, with a depth over it of 10 feet at L.W.O.S., appears to be in the centre of the shoal, and is situated five cables North 56 degrees West from the North extreme of Falcon island. The shoal is of small extent, but was not accurately determined.

*Charts affected.*—Nos. 2349 and 2763; Australia Directory, volume 2.

#### BAY OF BENGAL—CHITTAGONG COAST.

*South Patches light-vessel*—Replaced by buoy.

*No. 361-1 (first publication).*—

*Subject.*—The South Patches light-vessel will be removed from her station on the 1st January 1920 and replaced early in March.

A red conical buoy with staff and cage will mark the position during her absence.

*Position.*—Lat.  $21^{\circ} 29' N.$ , long.  $91^{\circ} 37' E.$

*Charts affected.*—No. 829, Cocanada to Bassein river.  
 „ 859, Matla river to Elephant point.  
 „ 70, Bay of Bengal.

*Publications.*—List of Lights, Part VI, 1919, No. 630.  
 Bay of Bengal Pilot, 1910, page 329.

*Authority.*—Port Officer, Chittagong, Notice dated 18th December 1919.

W. K. THYNE, COMDR., R.I.M.,  
 Deputy Port Officer of Calcutta.



*The 12th December 1919.*

INDIA—WEST COAST.

*Hangarkota—Derelict South-Eastward of.*

No. 350 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 77M. of 1919), are republished:—

*Details.*—Information, dated 14th November 1919, has been received from the Port Officer, Mangalore, that the Master of SS. *Juba* reports a submerged "kotia" awash with anchor down, abandoned in the following position and appears to be drifting in a northwardly direction.

*Position.*—Lat.  $13^{\circ} 26' 20''$  N.

Long.  $74^{\circ} 37' 40''$  E.

*Caution.*—Mariners are hereby warned accordingly.

*Charts temporarily affected.*—No. 745, Netrani to Cape Comorin.

„ 827, Vengurla to Cape Comorin.

„ 748b, Indian ocean, northern portion.

*Authority.*—Officiating Port Officer, Bombay, dated 15th November 1919.

INDIA—WEST COAST.

*Hosdrug Fort—Derelict reported Westward of.*

No. 351 (second publication).—The following particulars, etc., relative to the above, issued by the Director of the Royal Indian Marine, Bombay, in Notice to Mariners (No. 78M. of 1919), are republished:—

*Details.*—Telegraphic information, dated 20th November 1919, has been received from the Master of SS. *Risaldar* reporting partly sunken derelict in the following position.

*Position.*—Lat.  $12^{\circ} 18\frac{1}{2}'$  N.

Long.  $74^{\circ} 52'$  E.

*Caution.*—This derelict constitutes a danger to navigation, being in the track of shipping.

*Charts temporarily affected.*—No. 746, West coast of India; from Mulki to Mt. Dilli.

„ 827, Vengurla to Cape Comorin.

„ 748b, Indian ocean, northern portion.

*Authority.*—Officiating Port Officer, Bombay, dated 25th November 1919.

BAY OF BENGAL—CHITTAGONG COAST.

*Chittagong (Karnafuli) river—Alterations of buoys.*

No. 352-I (second publication).—

*Subject.*—The following alterations of buoys are made over the Guptakhali Crossing:—

(I) Guptakhali buoy has been moved  $307^{\circ} 20'$  (N.  $53^{\circ} 15'$  W. *Mag.*), 320 feet.

(II) Middle Active Spit buoy has been moved  $304^{\circ} 5'$  (N.  $56^{\circ} 30'$  W. *Mag.*), 290 feet.



*Variation.*— $0^{\circ} 35'$  E.

*Chart affected.*—No. 84, Chittagōng (Karnafuli) river.

*Publication.*—Bay of Bengal Pilot, 1910, page 323; Revised Supplement (2) 1917.

*Authority.*—Port Officer, Chittagong. Notice dated 5th December 1919.

*The 8th December 1919.*

#### JAPAN—GULF OF TOKYO.

*Tsurugi Zaki*—Shoal reported south-eastward of.

No. 344 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1801 of 1919), are republished:—

*Position.*—At a distance of about  $11\frac{1}{2}$  cables south-eastward from Tsurugi zaki lighthouse, close north-westward of the 8-fathom shoal in that locality.

Lat.  $35^{\circ} 08\frac{1}{2}'$  N., long.  $139^{\circ} 42'$  E.

*Details.*—A shoal with depths of less than 8 fathoms is reported to exist in the above position, and a note "*(Less water repd. 1919)*" is to be inserted against it on the charts.

*Charts affected.*—No. 2657, Gulf of Tokyo or Yedo.

„ 953, Omai saki to Tsurugi.

*Publication.*—Japan Pilot, 1914, page 194; Revised Supplement (2), 1919.

*Authority.*—Tokyo Notice No. 221 of 1919. (H. 5855/19.)

#### TASMANIA, NORTH COAST.

*Emu Bay*—Amendments to Charts.

No. 346 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1802 of 1919), are republished:—

*Position.*—Post office, Burnie, lat.  $41^{\circ} 03'$  S., long.  $145^{\circ} 56\frac{1}{2}'$  E.

*Details.*—The accompanying reproduction of a portion of plan of Emu bay on chart No. 3717 shows certain necessary amendments to this plan, embodying the latest information received and comprises the following:—

- (a) Position of new breakwater and light recently established with sectors.
- (b) Alterations to lights on pier and old breakwater.
- (c) Position of leading lights recently established.

*Charts affected.*—No. 3717, Plan of Emu bay.

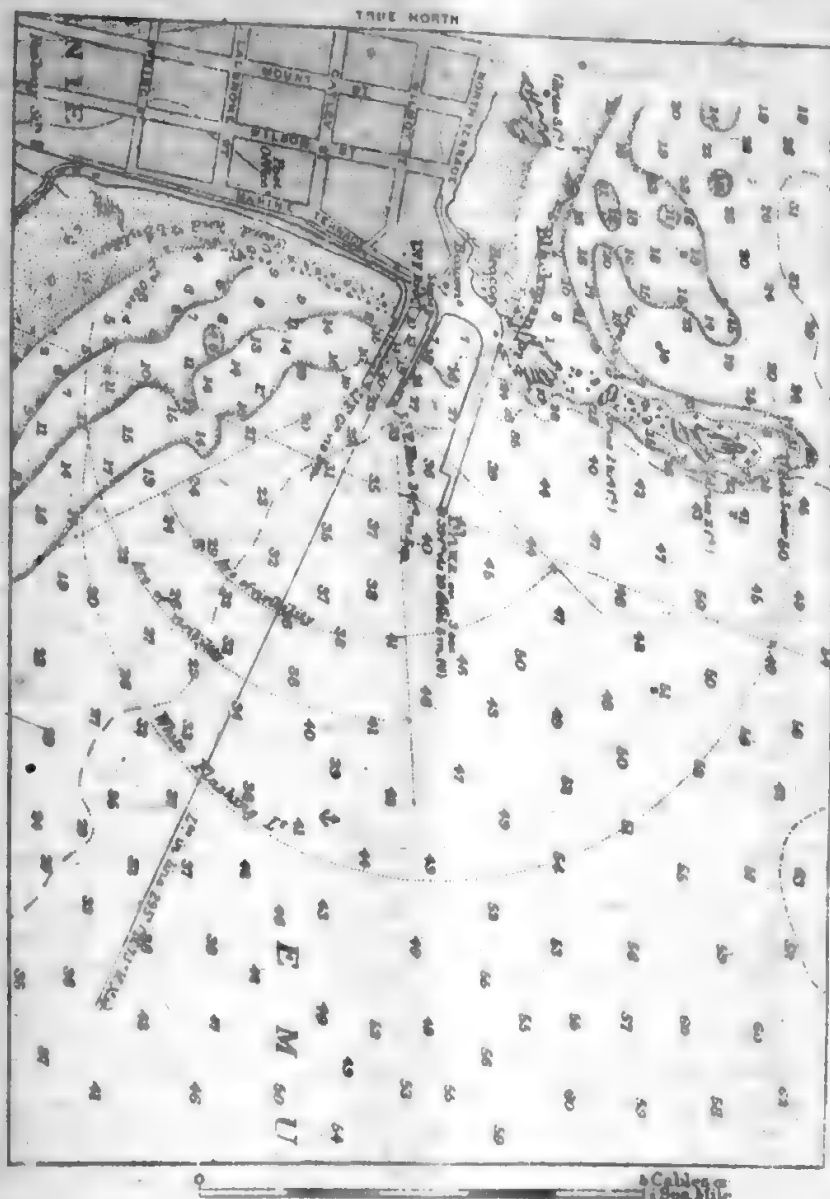
„ 1695b, Bass strait—western sheet.

„ 1079, Tasmania.

*Publications.*—List of Lights, Part VI, 1919, Nos. 2796, 2797 and 2798 Australia Pilot, Vol. 11, 1918, page 281.



Authority.—Department of Trade and Customs, Melbourne.  
(H. 6305/19.)



H.M. SURVEYING SHIP "FANTOME" 1908.  
Port Office (Bureau) Lat. 41° 3' 0" S., Long. 146° 56' 45" E. (approx.)  
H.W.F. & C.XI: 8<sup>th</sup> Springs rise 11 feet, Neaps rise 8 feet. Neaps range 6 feet (approximate).  
Reproduction of Portions of Chart No. 3117.

# SOUTH AUSTRALIA—ST. VINCENT GULF.

## Port Adelaide River Approach—Alterations in Lights on Light-Buoys.

No. 346 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1818 of 1910), are republished :—

- (1) *Position*.—Marking the 4-fathom patch  
Lat. 34° 48½' S., long. 138° 25½' E.

*New abridged description*.—Lt. Fl., Red.

*Alteration*.—The occulting red light on this light-buoy has been replaced by a *flashing red light every four seconds*.



(2) *Position*.—Marking outer end of entrance channel.

Lat.  $34^{\circ} 47\frac{1}{4}'$  S., long.  $138^{\circ} 26\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl., Gn.

*Alteration*.—The fixed green light on this light-buoy has been replaced by a *flashing green light every four seconds*.

(3) *Position*.—Marking south side of entrance channel.

Lat.  $34^{\circ} 47\frac{1}{4}'$  S., long.  $138^{\circ} 27\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl.

*Alteration*.—The occulting white light on this light-buoy has been replaced by a *flashing white light every four seconds*.

(4) *Position*.—On north side of channel, marking bend in channel.

Lat.  $34^{\circ} 47\frac{1}{4}'$  S., long.  $138^{\circ} 27\frac{1}{4}'$  E.

*New abridged description*.—Lt. Fl., Gn.

*Alteration*.—The fixed green light on light-buoy No. O G has been replaced by a *flashing green light every two seconds*.

*Charts affected*.—No. 1750, Port Adelaide.

„ 2389, St. Vincent and Spencer Gulfs, with plan.

*Publication*.—Australia Pilot, Vol. I, 1918, pages 295 and 302.

*Authority*.—South Australia Notice No. 3 of 1919. (H. 6824/19.)

#### PERSIAN GULF.

##### *Shatt al Arab Bar—Prohibited Anchorage.*

No. 347 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1825 of 1919), are republished :—

*Former Notice*.—No. 1705 of 1919. (This office No. 186 of 1919.)

*Position*.—Shatt al Arab light-vessel, lat.  $29^{\circ} 44\frac{1}{4}'$  N., long.  $48^{\circ} 48\frac{1}{4}'$  E.

*Details*.—Anchorage is prohibited westward of a line drawn  $126^{\circ}$  (S.  $56^{\circ}$  E. Mag.) from the Fairway light-buoy, and westward of a line drawn  $340^{\circ}$  (N.  $22^{\circ}$  W. Mag.) from the Shatt al Arab light-vessel.

*Remarks*.—A note to the above effect is to be placed on the charts.

*Variation*.— $2^{\circ}$  E.

*Chart affected*.—No. 1235, Mouth of the Euphrates.

*Publication*.—Persian Gulf Pilot, 1915, page 281.

*Authority*.—The Port Officer, Basrah. (H. 7171/19.)

#### NEW ZEALAND—NORTH ISLAND, WEST COAST.

##### *Manukau Harbour Approach—Extension of Bank and Decreased Depths in Main Channel.*

No. 348 (third publication).—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1827 of 1919), are republished :—

*Position*.—South Head lighthouse, lat.  $37^{\circ} 03\frac{1}{4}'$  S., long.  $174^{\circ} 32\frac{1}{4}'$  E.

*Details*.—The north-west bank, indicated by heavy breakers, situated at the bar in the main channel at a distance of about  $3\frac{1}{4}$  miles south-westward from South Head lighthouse, has extended considerably to the south-east, and there is now a depth of only 16 feet in the main channel.



**Remarks.**—The note "*Bank has extended considerably to the S. E. (1919)*" is to be placed against this bank on the charts, and the note with regard to the main channel amended to read "*The main channel has now (1919) a depth of only 16 feet.*"

**Charts affected.**—No. 2726, Manukau harbour.  
" 2543, Maunganui bluff to Manukau harbour.  
" 2535, Manukau harbour to Cape Egmont.

**Publications.**—New Zealand Pilot, 1908, page 215.  
New Zealand Pilot, 1919 (*in press*), pages 67, 70.

**Authority.**—Wellington Notice No. 31 of 1919. (*H. 6064/19.*)

#### EASTERN ARCHIPELAGO—GEELVINK BAY.

##### *Jappen—Existence of a reef.*

**No. 349 (third publication).**—The following particulars, etc., relative to the above, issued by the British Admiralty (No. 1838 of 1919), are republished:—

**Position.**—At a distance of about 5 miles westward from Barusi point.

Lat.  $1^{\circ} 50' 30''$  S., long.  $136^{\circ} 41' 00''$  E.

**Depth.**—2 fathoms (sand and coral).

**Remarks.**—The reef is of small extent and is not marked by discoloration.

**Chart affected.**—No. 942b, Eastern Archipelago, eastern portion—sheet 2.

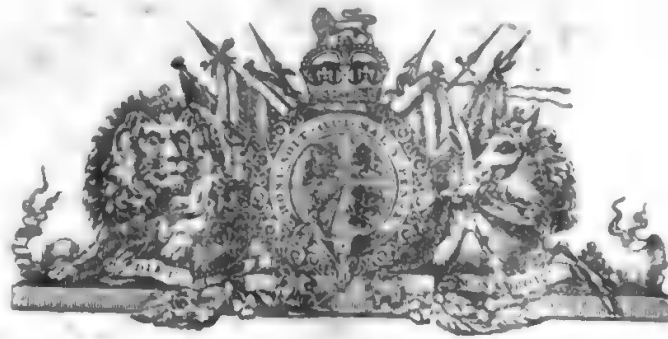
**Publication.**—Pacific Islands Pilot, Vol. I, 1908, page 234.

**Authority.**—Hague Notice No. 1916 of 1919. (*H. 7398/19.*)

E. STOCKEN, CAPT., R.I.M.,

*Port Officer of Calcutta.*





# The Calcutta Gazette

## EXTRAORDINARY.

MONDAY, JULY 14, 1919.

### GOVERNMENT OF BENGAL.

#### POLITICAL DEPARTMENT.

The following notification, issued by the Government of India in the Home Department, published in the *Gazette of India Extraordinary*, dated the 9th July 1919, is republished for general information.

J. H. KERR,  
*Chief Secy. to the Govt. of Bengal.*

#### NOTIFICATION.

##### WAR.

*Simla, the 9th July 1919.*

No. 655.—The following Royal Proclamation by His Imperial Majesty the King-Emperor, dated the 1st July 1919, is published for general information:—

#### BY THE KING-EMPEROR.

#### A ROYAL PROCLAMATION.

GEORGE R. I.

Whereas a definite Treaty of Peace between Us and the Associated Governments and the German Government was concluded at Versailles on the twenty-eighth day of June last, in conformity whereunto I have thought fit hereby to command that the same be published in due course throughout all Our Dominions, and We do declare to all Our loving Subjects Our will and pleasure that upon the exchange of the ratifications thereof the said Treaty of Peace be observed inviolably as well by sea as by land and in all places whatsoever, strictly charging and commanding all Our loving Subjects to take notice hereof and to conform themselves thereunto accordingly.

Given at Our Court at Buckingham Palace this first day of July in the Year of Our Lord one thousand nine hundred and nineteen and in the Tenth Year of Our Reign.

GOD SAVE THE KING-EMPEROR.

W. F. RICE,  
*Additional Secy. to the Govt. of India.*





# The Calcutta Gazette

**EXTRAORDINARY.**

SATURDAY, NOVEMBER 1, 1919.

**GOVERNMENT OF BENGAL.**

**POLITICAL DEPARTMENT.**

## NOTIFICATION.

*No. 12347 P.—The 1st November 1919.*—In exercise of the powers conferred by section 12, sub-section (1), of the Indian Press Act, 1910 (I of 1910) the Governor in Council declares to be forfeited to His Majesty all copies, wherever found, of a leaflet printed in English entitled "Message of Salvation" and headed "Allah-o-Akbar" beginning with the words "Seventy millions of Mussalmans of India" and ending with the words "By order: President, Central Revolution Committee", and all copies of all other documents containing the matter of the said leaflet on the ground that the said leaflet contains exhortations to rebel against the British Government and to commit murder, and appears to the Governor in Council to contain words which have a tendency to incite to acts of violence and are of the nature described in section 4, sub-section (1), clauses (a) and (c), of the said Act.

J. H. KERR.

*Chief Secy. to the Govt. of Bengal.*





# The Calcutta Gazette

**EXTRAORDINARY.**

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WEDNESDAY, DECEMBER 24, 1919.

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## PROCLAMATION.

GEORGE THE FIFTH, BY THE GRACE OF GOD OF THE UNITED KINGDOM OF GREAT BRITAIN AND IRELAND AND OF THE BRITISH DOMINIONS BEYOND THE SEAS, KING, DEFENDER OF THE FAITH, EMPEROR OF INDIA. TO MY VICEROY AND GOVERNOR-GENERAL, TO THE PRINCES OF INDIAN STATES AND TO ALL MY SUBJECTS IN INDIA OF WHATSOEVER RACE OR CREED, GREETING.

I. Another epoch has been reached to-day in the Councils of India. I have given my Royal assent to an Act which will take its place among the great historic measures passed by the Parliament of this Realm for the better government of India and the greater contentment of her people. The Acts of seventeen hundred and seventy-three and seventeen hundred and eighty-four were designed to establish a regular system of administration and justice under the Honourable East India Company. The Act of eighteen hundred and thirty-three opened the door for Indians to public office and employment. The Act of eighteen hundred and fifty-eight transferred the administration from the Company to the Crown and laid the foundations of public life which exist in India to-day. The Act of eighteen hundred and sixty-one sowed the seed of representative institutions and the seed was quickened into life by the Act of nineteen hundred and nine. The Act which has now become law



entrusts elected representatives of the people with a definite share in Government and points the way to full representative Government hereafter. If, as I confidently hope, the policy which this Act inaugurates should achieve its purpose, the results will be momentous in the story of human progress; and it is timely and fitting that I should invite you to-day to consider the past and to join me in my hopes of the future.

II. Ever since the welfare of India was confided to us, it has been held as a sacred trust by our Royal House and Line. In eighteen hundred and fifty-eight Queen Victoria of revered memory solemnly declared herself bound to her Indian subjects by the same obligations of duty as to all her other subjects; and she assured them religious freedom and the equal and impartial protection of law. In his message to the Indian people in nineteen hundred and three my dear father King Edward the Seventh announced his determination to maintain unimpaired the same principles of humane and equitable administration. Again, in his proclamation of nineteen hundred and eight, he renewed the assurances which had been given fifty years before and surveyed the progress which they had inspired. On my accession to the throne in nineteen hundred and ten I sent a message to the Princes and peoples of India acknowledging their loyalty and homage and promising that the prosperity and happiness of India should always be to me of the highest interest and concern. In the following year I visited India with the Queen-Empress and testified my sympathy for her people and my desire for their well-being.

III. While these are sentiments of affection and devotion by which I and my predecessors have been animated, the Parliament and the people of this Realm and my officers in India have been equally zealous for the moral and material advancement of India. We have endeavoured to give to her people the many blessings which Providence has bestowed upon ourselves. But there is one gift which yet remains and without which the progress of a country cannot be consummated: the right of her people to direct her affairs and safeguard her interests. The defence of India against foreign aggression is a duty of common Imperial interest and pride. The control of her domestic concerns is a burden which India may legitimately aspire to taking upon her own shoulders. The burden is too heavy to be borne in full until time and experience have brought the necessary strength; but opportunity will now be given for experience to grow and for responsibility to increase with the capacity for its fulfilment.

IV. I have watched with understanding and sympathy the growing desire of my Indian people for representative institutions. Starting from small beginnings this ambition has steadily strengthened its hold upon the intelligence of the country. It has pursued its course along constitutional channels with sincerity and courage. It has survived the discredit which at times and in places lawless men sought to cast upon it by acts of violence committed under the guise of patriotism. It has been stirred to more vigorous life by the ideals for which the British Commonwealth fought in the Great War and it claims support in the part which India has taken in our common struggles, anxieties and victories. In truth the desire after political responsibility has its source at the roots of the British connection with India.



It has sprung inevitably from the deeper and wider studies of human thought and history, which that connection has opened to the Indian people. Without it the work of the British in India would have been incomplete. It was therefore with a wise judgment that the beginnings of representative institutions were laid many years ago. This scope has been extended stage by stage until there now lies before us a definite step on the road to responsible Government.

V. With the same sympathy and with redoubled interest I shall watch the progress along this road. The path will not be easy and in marching towards the goal there will be need of perseverance and of mutual forbearance between all sections and races of my people in India. I am confident that those high qualities will be forthcoming. I rely on the new popular assemblies to interpret wisely the wishes of those whom they represent and not to forget the interests of the masses who cannot yet be admitted to the franchise. I rely on the leaders of the people, the Ministers of the future, to face responsibility and endure to sacrifice much for the common interest of the State, remembering that true patriotism transcends party and communal boundaries; and while retaining the confidence of the legislatures, to co-operate with my officers for the common good in sinking unessential differences and in maintaining the essential standards of a just and generous Government. Equally do I rely on my officers to respect their new colleagues and to work with them in harmony and kindliness; to assist the people and their representatives in an orderly advance towards free institutions; and to find in these new tasks a fresh opportunity to fulfil as in the past their highest purpose of faithful service to my people.

VI. It is my earnest desire at this time that so far as possible any trace of bitterness between my people and those who are responsible for my Government should be obliterated. Let those who in their eagerness for political progress have broken the law in the past respect it in future. Let it become possible for those who are charged with the maintenance of peaceful and orderly Government to forget extravagances they have had to curb. A new era is opening. Let it begin with a common determination among my people and my officers to work together for a common purpose. I therefore direct my Viceroy to exercise in my name and on my behalf my Royal clemency to political offenders in the fullest measure which in his judgment is compatible with public safety. I desire him to extend it on this condition to persons who for offences against the State or under any special or emergency legislation are suffering from imprisonment or restrictions upon their liberty. I trust that this leniency will be justified by the future conduct of those whom it benefits and that all my subjects will so demean themselves as to render it unnecessary to enforce the laws for such offences hereafter.

VII. Simultaneously with the new constitution in British India, I have gladly assented to the establishment of a Chamber of Princes. I trust that its counsels may be fruitful of lasting good to the Princes and States themselves, may advance the interests which are common to their territories and British India, and may be to the advantage of the Empire as a whole. I take the occasion again to assure the Princes of India of my determination ever to maintain unimpaired their privileges, rights and dignities.



VIII. It is my intention to send my dear son, the Prince of Wales, to India by next winter to inaugurate on my behalf the new Chamber of Princes and the new constitution in British India. May he find mutual goodwill and confidence prevailing among those on whom will rest the future service of the country, so that success may crown their labours and progress and enlightenment attend their administration. And with all my people I pray to Almighty God that by His wisdom and under His guidance India may be led to greater prosperity and contentment and may grow to the fulness of political freedom.

December the twenty-third, nineteen hundred and nineteen.

(6 end)